

GENERAL CATALOGUE



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ALCHIOIL 100

Universal, low-viscosity release agent for iron, wood and concrete formwork, with chemical-physical action



[info. PRECAUTIONS]

Use according to the instructions on the technical and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet in accordance with EU Regulation 2015/830. Substances in the Candidate List (Art. 59 REACH): based on the data, the product does not contain SVHC substances $\geq 0.1\%$.

[info. CONSUMPTION]

Approximately 1 L / 80 m² of surface area.

[info. PACKAGING]

- In bulk
- 1050 L tank
- 210 L drum
- 25 L tank
- 10 L container

[info. STORAGE]

The product can be stored for a long time in its original packaging without any changes.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

ALCHIOIL 100 is a release agent suitably formulated with special additives that allow **easy demoulding and protection of formwork**, with simple application even at low temperatures. Due to its special composition, it forms a homogeneous film that creates an inert barrier between the formwork and the mixture, improving the exposed finish. ALCHIOIL 100 is particularly suitable for large structures.

Fields of application

ALCHIOIL 100 has been specifically designed for use as a release agent for smooth or rough formwork made of steel, wood or concrete. Suitable for use in both prefabrication and general construction.

ALCHIOIL 100 is a ready-to-use release agent; due to its particular effectiveness, it is advisable to apply it by spraying to avoid excessive use. It can also be applied at low temperatures and does not alter the original colour of the concrete. Due to the intrinsic characteristics of the product, the released surfaces can be subsequently treated with water-based paints, varnishes or plasters.

Instructions for use and consumption

Spray a very thin layer of the product onto the formwork using appropriate sprayers and nozzles, or wipe it with a slightly damp cloth. One litre of ALCHIOIL 100 can treat approximately 80 m² of surface area.

Equipment

We have developed special equipment for the quick and extremely economical application of our release agents. Our Technical Department is available to assess the equipment best suited to your needs.

ALCHIOIL 100 W

Universal, low-viscosity formwork release agent for all types of formwork, with chemical-physical action and low environmental impact



[info. **PRECAUTIONS**]

Use according to the instructions provided in the technical and safety data sheet. Given its composition, it can be used without any particular environmental issues using standard protective systems. Consult the toxicological data sheet in accordance with EU Regulation 2015/830, which is exempt from hazard pictograms.

[info. **CONSUMPTION**]

Approximately 1 L / 80 m² of surface area.

[info. **PACKAGING**]

- In bulk
- 1050 L tank
- 210 L drum
- 25 L tank
- 10 L container

[info. **STORAGE**]

The product can be stored for a long time in its original packaging without any changes.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

ALCHIOIL 100 W is a release agent containing special additives that facilitate demoulding and protect formwork, with easy application even at low temperatures. Its special composition forms a uniform film that creates an inert barrier between the formwork and the mixture, improving the exposed finish. ALCHIOIL 100 W is particularly suitable for large structures. Given its formulation, the product is free of pictograms **with no health hazard warnings for users**.

Fields of application

ALCHIOIL 100 W has been specially designed for use as a release agent for smooth or rough formwork made of steel, wood or concrete. Suitable for use in both prefabrication and general construction. ALCHIOIL 100 W is a ready-to-use release agent; due to its particular effectiveness, spray application is recommended to avoid excessive use. It can also be applied at low temperatures and does not alter the original colour of the concrete. Due to the intrinsic characteristics of the product, the released surfaces can be subsequently treated with water-based paints, varnishes or plasters.

Instructions for use and consumption

Spray a very thin layer of the product onto the formwork using appropriate sprayers and nozzles, or wipe it on with a slightly damp cloth. One litre of ALCHIOIL 100 W is sufficient to treat approximately 80 m² of surface area.

Equipment

We have developed special equipment for the quick and extremely economical application of our release agents. Our Technical Department is available to assess the equipment best suited to your needs.

ALCHIOIL 100 FILMO 50

Universal, low-viscosity release agent for iron, wood and concrete formwork, with chemical-physical action and adhesion promoter



[info. **PRECAUTIONS**]

Use according to the instructions on the technical and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet in accordance with EU Regulation 2015/830. Substances in the Candidate List (Art. 59 REACH): based on the data, the product does not contain SVHC substances $\geq 0.1\%$.

[info. **CONSUMPTION**]

Approximately 1 L / 60 m² of surface area.

[info. **PACKAGING**]

- In bulk
- 1050 L tank
- 210 L drum
- 25 L tank
- 10 L container

[info. **STORAGE**]

The product can be stored for a long time in its original packaging without any changes.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

ALCHIOIL 100 FILMO 50 is a release agent composed of special additives and an adhesion promoter that allow demoulding for both vertical and horizontal castings, as well as 'negative castings' and high-temperature castings in prefabrication, ensuring protection of formwork and processing at low temperatures.

Due to its special composition, **it forms an additional homogeneous film which creates an inert barrier between the formwork and the mixture, improving the exposed finish effect.** ALCHIOIL 100 FILMO 50 is **particularly suitable for large-scale projects.**

Fields of application

ALCHIOIL 100 FILMO 50 has been specifically designed for use as a release agent for smooth or rough formwork made of steel, wood or concrete. It is suitable for use in both prefabrication and general construction.

ALCHIOIL 100 FILMO 50 is a ready-to-use release agent; due to its particular effectiveness, spray application is recommended to avoid excessive use. It can also be applied at low temperatures and does not alter the original colour of the concrete. Due to the intrinsic characteristics of the product, the stripped surfaces can be subsequently treated with water-based paints, varnishes or plasters.

Instructions for use and consumption

Spray a very thin layer of the product onto the formwork using appropriate sprayers and nozzles, or wipe it on with a slightly damp cloth. One litre of ALCHIOIL 100 FILMO 50 is sufficient to treat approximately 60 m² of surface area.

Equipment

We have developed special equipment for the quick and extremely economical application of our release agents. Our Technical Department is available to assess the equipment best suited to your needs.

ALCHIOIL 200

Universal chemical-physical action disarming agent with medium viscosity and high anti-corrosive power



[info. **PRECAUTIONS**]

Use according to the instructions on the technical and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet in accordance with EU Regulation 2015/830. Substances in the Candidate List (Art. 59 REACH): based on the data, the product does not contain SVHC substances $\geq 0.1\%$.

[info. **CONSUMPTION**]

Approximately 1 L / 50 m² of surface area.

[info. **PACKAGING**]

- In bulk
- 1050 L tank
- 210 L drum
- 25 L tank
- 10 L container

[info. **STORAGE**]

The product can be stored for a long time in its original packaging without any changes.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

ALCHIOIL 200 is a latest-generation disarming agent.

It contains special additives with high anti-corrosive power that act as inhibitors, **preventing the formation of rust stains on metal formwork.**

Fields of application

ALCHIOIL 200 provides exceptional release between formwork and concrete, while protecting the formwork from oxidation, which is so common with normal release agents. ALCHIOIL 200 contains a balanced blend of additives that allow it to be used for both horizontal and vertical casting, while providing effective protection against rust.

ALCHIOIL 200 is particularly suitable for castings that must undergo forced curing, although its versatility means it can be defined as a universal release agent.

ALCHIOIL 200 does not emit unpleasant odours and the additives used are even used in cosmetics, protecting and safeguarding the health of users.

Instructions for use and consumption

Spray a very thin layer of the product onto the formwork using appropriate sprayers and nozzles, or wipe it on with a slightly damp cloth. One litre of ALCHIOIL 200 is sufficient to treat approximately 50 m² of surface area.

Equipment

We have developed special equipment for the quick and extremely economical application of our release agents. Our Technical Department is available to assess the equipment best suited to your needs.

ALCHIOIL 400

Universal, ultra-low viscosity release agent for demoulding concrete products



[info. PRECAUTIONS]

Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. CONSUMPTION]

Approximately 1 L / 50 m² of surface area.

[info. PACKAGING]

- In bulk
- 1050 L tank
- 210 L drum
- 25 L tank

[info. STORAGE]

The product must be kept away from open flames or sources of heat.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

ALCHIOIL 400 is a **particularly fluid release agent** specially formulated with special substances that allow easy and effective demoulding of products, which will have an excellent visible finish.

Fields of application

ALCHIOIL 400 has been specially formulated for medium-speed demoulding of small and medium-sized items and is suitable for steel, wood or concrete formwork.

ALCHIOIL 400 is a ready-to-use release agent: spray application is recommended, although it can also be applied using traditional methods with a brush or paintbrush.

ALCHIOIL 400 can also be applied at very low temperatures and does not alter the visible surface of concrete, on which it does not create any problems for the application of water-based paints or plasters.

Instructions for use and consumption

Apply a very thin layer of ALCHIOIL 400 to the formwork. Do not apply the product to formwork at very high temperatures (60 °C). One litre of ALCHIOIL 400 can treat an average of approximately 50 m² of surface area. ALCHIOIL 400 should not be used on surfaces with temperatures above 40 °C.

Equipment

We have developed special equipment for the quick and extremely economical application of our release agents. Our Technical Department is available to assess the equipment best suited to your needs.

Ready-to-use water-based emulsion paint remover for high-quality exposed finishes



[info. **PRECAUTIONS**]

- Avoid freezing.
- Shake well before use.
- Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.
- Sostanze in Candidate List (Art.59 REACH): in base ai dati il prodotto non contiene sostanze SVHC $\geq 0,1\%$.

[info. **CONSUMPTION**]

Approximately 1 L / 80 m² of surface area.

[info. **PACKAGING**]

- 1050 L tank
- 210 L drum
- 25 L tank

[info. **STORAGE**]

The product is sensitive to frost, therefore it is advisable to store it at temperatures between +5°C and 40°C.

Maximum storage: 6 months in original, unopened packaging.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

ECOFINISH is a form release agent **formulated with special synthetic oils and biodegradable plant-based additives**, free from substances that are toxic or harmful to operators and the environment.

ECOFINISH guarantees an excellent finish for exposed concrete structures, reducing the formation of macro and micro bubbles with very modest product usage, making the surfaces of the structures perfectly uniform. Thanks to the use of special inhibitors, ECOFINISH keeps formwork clean, protecting it from corrosion. Also suitable for delayed demoulding.

Fields of application

ECOFINISH can be used on smooth or rough formwork made of steel, plywood or polyester, to remove any type of concrete, except for concrete with a moist earth consistency.

ECOFINISH is also recommended for vertical surfaces.

Instructions for use and consumption

Spray ECOFINISH onto the formwork using sprayers and comb nozzles at operating pressures above 4 atm. It is recommended to apply a modest amount of product, bearing in mind that 1 litre of ECOFINISH can treat approximately 80 m² of surface area. ECOFINISH should not be used on surfaces with temperatures above 40 °C.

Equipment

We provide specialised equipment for quick and extremely economical application of our form release agents.

We recommend using the STAR 25 pump. Our Technical Department is available to assess the equipment and methods of use best suited to your needs.

ECOFINISH PLUS

Ready-to-use water-based emulsion paint remover for high-quality exposed finishes



[info. PRECAUTIONS]

Use according to the instructions on the technical and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet in accordance with EU Regulation 2015/830.

Substances in the Candidate List (Art. 59 REACH): based on the data, the product does not contain SVHC substances $\geq 0.1\%$.

[info. CONSUMPTION]

Approximately 25 g/m² of surface area.

[info. PACKAGING]

- 1050 L tank
- 210 L drum
- 25 L canister

[info. STORAGE]

The product is sensitive to frost, therefore storage at temperatures between +5 °C and 40 °C is recommended.

At temperatures equal to or below 2 °C, separation of the emulsion may occur.

Maximum storage: 6 months in original, unopened packaging.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

ECOFINISH PLUS is a **reverse emulsion form release agent, formulated with special synthetic oils and biodegradable additives of plant origin, free from toxic or harmful substances for operators and the environment.**

ECOFINISH PLUS guarantees an excellent finish for exposed concrete structures, reducing (even with minimal product use) the formation of macro and micro bubbles and ensuring perfectly uniform surfaces.

Thanks to the use of special inhibitors, it keeps formwork clean and protects it from corrosion. The product is also suitable for delayed demoulding.

Fields of application

ECOFINISH PLUS can be used in all sectors where effective formwork release is required for concrete works or structures. It is therefore suitable for both heavy and light prefabrication and for shipbuilding, in all applications where concrete surfaces of a high aesthetic standard are required.

In the prefabrication sector, the product is suitable for both natural curing and steam curing.

ECOFINISH PLUS is compatible with all types of formwork: metal, treated wood and plastic formwork (polystyrene, rubber, polyurethane, etc.). It is also particularly recommended for applications on vertical surfaces.

Instructions for use and consumption

Apply ECOFINISH PLUS to formwork using sprayers equipped with comb nozzles, with operating pressures above 4 atm, or with a brush. It is recommended to use small quantities of product: approximately 20-25 g/m² covers 1 m² of surface area; in the presence of absorbent formwork, consumption can reach up to 30 g/m². The best formwork removal results are generally obtained after 5-10 uses of the same formwork.

Do not apply ECOFINISH PLUS on surfaces with temperatures above 40 °C. Before application, the formwork must be clean and dry: the presence of water or concrete residues prevents the formation of the thin protective film and compromises the formwork removal action.

Before pouring the concrete, wait for the water component of the product to evaporate and for a continuous oily film to form on the surface.

Equipment

We provide specialised equipment for quick and extremely economical application of our form release agents. We recommend using the STAR 25 pump. Our Technical Department is available to assess the equipment and methods of use best suited to your needs.

EMULSFORM

Pre-emulsified disarming compound for wooden formwork



[info. PRECAUTIONS]

- Avoid freezing.
- Shake well before use.
- Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. CONSUMPTION]

Approximately 1 L / 80 m² of surface area.

[info. DOSAGE]

1 part EMULSFORM to approximately 10 parts water.

[info. PACKAGING]

- In bulk
- 1050 L tank
- 210 L drum
- 25 L tank
- 10 L container

[info. STORAGE]

It can be stored for 6 months in its original, unopened packaging, kept in a dry and protected environment, at a temperature between 5 °C and 30 °C.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

EMULSFORM is a latest-generation formwork release agent, **formulated with special synthetic oils and high-quality emulsifiers, pre-emulsified in water**. It comes as a milky white oily liquid and requires further dilution in water before use. It provides excellent protection for wooden or plywood formwork, helping to prolong its life and preserve its integrity.

Fields of application

EMULSFORM is particularly suitable for application on wooden or plywood formwork to achieve excellent exposed concrete effects. EMULSFORM should be diluted in the recommended proportions, taking care not to use water that is too cold and always pouring the mixture into the water and not vice versa.

Instructions for use and consumption

EMULSFORM is mixed with water in a ratio of 1 part EMULSFORM to 10 parts water. Before applying the release agent, it is advisable to remove any foreign materials or concrete fragments from the formwork. One litre of diluted product can treat approximately 80 m² of surface area; however, the yield depends essentially on the state of wear of the wood used.

Equipment

We have developed special equipment for the rapid and extremely economical application of our formwork release agents. Our Technical Department is at your disposal to identify the solution that best suits your needs.

NUOVO DISARMOIL

Water-emulsifiable dismoulding agent for wooden formwork



[info. **PRECAUTIONS**]

Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. **CONSUMPTION**]

Approximately 1 L / 100 m² of surface area.

[info. **DOSAGE**]

1 L of NUOVO DISARMOIL in approximately 20 parts water.

[info. **PACKAGING**]

- In bulk
- 1050 L tank
- 210 L drum
- 25 L tank
- 10 L container

[info. **STORAGE**]

The product can be stored for a long time in its original packaging without alteration.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

NUOVO DISARMOIL is a **latest-generation degreaser, formulated with special synthetic oils and emulsifiers of the highest quality, free from SVHC substances**. It comes in the form of a straw-coloured oily liquid which, once mixed with water, provides excellent protection for wooden or plywood formwork, helping to maintain its durability and integrity over time.

Fields of application

NUOVO DISARMOIL is particularly suitable for use on wooden or plywood formwork to obtain concrete with an excellent exposed finish. NUOVO DISARMOIL should be diluted in the recommended proportions, taking care not to use water that is too cold and always pouring the oil into the water and not vice versa.

Instructions for use and consumption

NUOVO DISARMOIL should be diluted in water at a ratio of 1 part product to 15-20 parts water. Before application, it is advisable to remove any residues or fragments of hardened concrete from the formwork. One litre of suitably diluted product can treat approximately 100 m² of surface area, depending on the condition of the wood used.

Advantages

NEW DISARMOIL guarantees the durability and protection of wooden formwork and does not alter the original colour of the product.

Equipment

We have developed special equipment for the rapid and extremely economical application of our formwork release agents. Our Technical Department is at your disposal to identify the solution that best suits your needs.

PRONTOSFORM

Pre-emulsified paste-like release agent, ideal for vertical formwork, ensures an excellent exposed finish



[info. PRECAUTIONS]

- Avoid freezing.
- Shake well before use.
- Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. CONSUMPTION]

Approximately 1 L / 30 m² of surface area.

[info. PACKAGING]

- In bulk
- 1050 L tank
- 210 L drum
- 25 L tank

[info. STORAGE]

The product is sensitive to frost, therefore it is advisable to store it at temperatures between +5°C and 40°C.

After 1 or 2 months of storage, a layer of oil may form on the surface; in this case, stir the product to ensure that the surface liquid is reabsorbed.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

PRONTOSFORM is a pre-emulsified, ready-to-use product with **excellent adhesion to formwork walls, on which it forms a protective film that is not removed by the concrete during casting and guarantees perfect uniformity on surfaces.** It does not affect the concrete and does not create dust on the formwork.

PRONTOSFORM disinfectant does not contain substances that are hazardous to the health of operators and therefore does not require the application of specific hazard, risk or safety symbols on the packaging.

Fields of application

Particularly suitable for removing pre-stressed concrete products or traditional structures that require the use of vertical formwork, with specific exposed finish requirements.

Instructions for use and consumption

The covering power of PRONTOSFORM depends on the type of equipment used: optimal consumption is achieved with compressed air spray systems (airless), where, on average, 1 litre of product can treat approximately 30 m² of surface area. Shake well before use.

Advantages

PRONTOSFORM does not alter the original colour of the concrete, whether grey or white, and allows you to obtain smooth, bubble-free products with excellent exposed finishes.

Equipment

We have developed special equipment for the rapid and extremely economical application of our formwork release agents. Our Technical Department is at your disposal to identify the solution that best suits your needs.

RAPIDSFORM BIO

Environmentally friendly quick-release disarming device



[info. **PRECAUTIONS**]

Use in accordance with the instructions on the health and safety data sheet in compliance with EU Regulation 2020/878. The product does not contain any hazard warnings. Wear full protective clothing. Substances on the Candidate List (Art. 59 REACH): absent

[info. **CONSUMPTION**]

Approximately 1 L / 60 m² of surface area.

[info. **PACKAGING**]

- Bulk in tank
- 1050 L tank
- 210 L drum
- 25 L canister
- 10 L canister

[info. **STORAGE**]

The product can be stored for long periods in its original packaging without undergoing any changes. It is sensitive to frost: if stored outdoors during the winter, it may freeze. If the product is partially crystallised, homogenise it with a mechanical agitator before use.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

RAPIDSFORM BIO is a **ready-to-use, environmentally friendly release agent that isolates the formwork from the concrete through physical-mechanical action and reacts chemically with the concrete to create an insulating element in the form of a thin film with no actual cohesion, which provides the most effective separation between the concrete and the formwork.** It gives the moulded surfaces a uniform appearance with sharp edges.

Fields of application

RAPIDSFORM BIO is a release agent suitable for any type of concrete poured into metal formwork. It is not recommended for use on polystyrene formwork or other plastic materials. The product is particularly suitable for the immediate release of kerbs, blocks, pipes, manholes and similar structures.

Instructions for use and consumption

Apply a very thin layer of the product to the formwork using sprayers with suitable nozzles, or spread with a slightly dampened pad. Avoid excessive application: quantities greater than necessary may compromise the appearance of the product. One litre of RAPIDSFORM BIO can treat approximately 60 m² of surface area.

Equipment

We have developed special equipment for the rapid and extremely economical application of our formwork release agents. Our Technical Department is at your disposal to identify the solution that best suits your needs.

RAPIDSFORM FL

Quick-release disarming device



[info. **PRECAUTIONS**]

Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. **CONSUMPTION**]

Approximately 1 L / 70 m² of surface area.

[info. **DOSAGE**]

Dilute one part RAPIDSFORM in approximately 20 parts petroleum solvents.

[info. **PACKAGING**]

- 1050 L tank
- 210 L drum
- 25 L tank

[info. **STORAGE**]

The product can be stored for long periods in its original packaging in a covered location. Keep the product away from sources of heat.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

RAPIDSFORM FL is a **release agent specially formulated for the rapid demoulding of concrete products**. The high degree of lubricity of the product allows for perfect cleaning of formwork, whether made of iron or fibreglass. Proper formwork removal allows for high-quality finishes, avoiding common problems associated with the use of unsuitable formwork removal agents, such as broken edges or imperfect detachment from the formwork.

Fields of application

Particularly suitable for all types of instant moulding of manufactured items, for concrete casting in metal formwork intended for the production of small and medium-sized manufactured items.

Instructions for use and consumption

RAPIDSFORM FL can be applied by spray or brush.

Under normal conditions, approximately 70 m² of surface area can be treated with 1 litre of diluted product.

Advantages

RAPIDSFORM FL guarantees and facilitates the removal of products from formwork, ensuring a good level of finish.

Equipment

We have developed special equipment for the rapid and extremely economical application of our formwork release agents. Our Technical Department is at your disposal to identify the solution that best suits your needs.

Universal, ultra-low viscosity release agent for rapid demoulding of small and medium-sized products



[info. **PRECAUTIONS**]

Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. **CONSUMPTION**]

Approximately 1 L / 60 m² of surface area.

[info. **PACKAGING**]

- In bulk
- 1050 L tank
- 210 L drum
- 25 L tank
- 10 L container

[info. **STORAGE**]

The product can be stored for long periods in its original packaging, without alteration, at temperatures not lower than 2 °C.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

SFORMACER is a **particularly fluid release agent, specially formulated with special substances that allow easy and effective demoulding of products, which will have an excellent visible finish.**

Fields of application

SFORMACER has been specially designed for rapid demoulding and for small and medium-sized products, for steel, wood or concrete formwork. SFORMACER is a ready-to-use release agent. We recommend applying it by spraying, although it can also be applied using traditional methods with a brush or paintbrush.

It can also be applied at very low temperatures and does not alter the visible surface of the products, on which it does not create any problems for the application of water-based paints or plasters.

Instructions for use and consumption

Apply a very thin layer of SFORMACER to the formwork. Do not apply the product to formwork at very high temperatures (40 °C). On average, 1 litre of product can treat approximately 60 m² of surface area.

Equipment

We have developed special equipment for the rapid and extremely economical application of our formwork release agents. Our Technical Department is at your disposal to identify the solution that best suits your needs.

SIRIOGEL 100 L

Antifreeze additive



[info. **PRECAUTIONS**]

Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. **DOSAGE**]

1-2% of the weight of the cement (1-2 kg per 100 kg of cement).

[info. **PACKAGING**]

- 1200 kg tank
- 220 kg drum
- 30 kg tank
- 5 kg container

[info. **STORAGE**]

The product must be stored in its original packaging, tightly closed and protected from frost.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

SIRIOGEL 100 L is a chloride-free antifreeze which, by acting on the cement with a chemical-physical action, **accelerates the development of hydration heat and consequently prevents the formation of ice in cement mixtures used in winter.**

Fields of application

SIRIOGEL 100 L is used in mortars and all types of concrete: normal, reinforced, precast and, being a chloride-free product, it is also widely used in pre-stressed concrete.

Instructions for use and consumption

SIRIOGEL 100 L is used at a rate of 1-2% of the weight of the cement (i.e. 1-2 kg per 100 kg of cement), adding it at the same time as the mixing water.

Advantages

- Possibility of applying cement-based products during the winter months at temperatures down to 10 °C.
- Accelerated concrete strength at low temperatures, allowing for faster formwork removal.
- Increased initial strength to protect the concrete from frost damage.
- Greater mix cohesion, preventing segregation.

Compatibility

SIRIOGEL 100 L is compatible with all types of cement.
Each antifreeze agent must be added separately during the mixing phase.

Setting and hardening accelerator for concrete and mortar



[info. **PRECAUTIONS**]

Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. **DOSAGE**]

0.8-1.5% of the weight of the cement (0.8 to 1.5 kg per 100 kg of cement).

[info. **PACKAGING**]

- 1200 kg tank
- 220 kg drum
- 30 kg tank

[info. **STORAGE**]

The product must be stored in places with temperatures not lower than +2°C. When the product has been exposed to lower temperatures, it must be heated slowly and stirred.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

SIRIOMIX is a ready-to-use, chloride-free chemical agent that **significantly reduces the setting and hardening times of concrete** without altering its workability.

Fields of application

SIRIOMIX is particularly suitable for use in the precast concrete industry for the production of civil or industrial structures. It is also recommended for all types of ready-mixed concrete during the winter months.

Instructions for use and consumption

SIRIOMIX should be dosed at 0.8-1.5% of the weight of the cement (0.8-1.5 kg per 100 kg of cement) depending on the acceleration results to be obtained. SIRIOMIX can be added to the concrete mixer during the mixing phase for the time necessary for its homogeneous dispersion in the mixture (approximately 5 minutes at maximum speed).

It is advisable to carry out preliminary mixes with different dosages of SIRIOMIX in order to determine the exact quantity required based on the quality of the cement used in the mixture and the temperature measured during mixing.

Advantages

- Significant reduction in setting and hardening times.
- Increased mechanical strength during short curing periods.
- Reduction in curing times.
- Possibility of casting even at low temperatures.

Anti-evaporation film for concrete



[info. **PRECAUTIONS**]

Apply the product evenly over the entire surface to be protected. Do not apply at temperatures below 5 °C. The product is sensitive to frost. Consult the toxicological data sheet.

[info. **CONSUMPTION**]

Consumption depends on the degree of surface finish of the concrete and environmental conditions. Normally, 100 g of SIRIOPEL is required to protect 1 m² of surface area when applied by spray, and 150 g when applied by brush.

[info. **PACKAGING**]

- 200 kg drum
- 25 kg container
- 10 kg container

[info. **STORAGE**]

The product is stable for 6 months and must be stored at temperatures between 5 °C and 40 °C.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOPEL is a **concrete curing agent consisting of special resins in aqueous emulsion, which form an impermeable film, preventing rapid evaporation of the mixing water.**

Instructions for use

SIRIOPEL is ready to use: apply by spraying the product at low pressure immediately after the surface water has evaporated.

Fields of application

SIRIOPEL is particularly suitable for all horizontal and vertical concrete or mortar surfaces exposed to the sun and wind, and in all places where rapid water evaporation may occur due to high temperatures (floors, slabs, swimming pools, etc.).

Advantages

The speed and ease of use of SIRIOPEL make it advantageous compared to traditional systems such as polyethylene sheets, mats, and continuous water wetting. Concrete treated with SIRIOPEL has significantly higher mechanical strength than similar untreated concrete. SIRIOPEL ensures perfect curing for 20-30 days.

VEGESFORM ECO BG

Ready-to-use, 100% plant-based plant disinfectant for delayed detachment



[info. PRECAUTIONS]

- Avoid freezing.
- Shake well before use.
- Wear full protective clothing.
- Consult the toxicological data sheet.
- Use according to the instructions on the technical and safety data sheet.
- The material is not flammable and does not pose an explosion hazard.
- Use the product at temperatures above 5 °C.
- Take care when using in the presence of polystyrene panels.

[info. CONSUMPTION]

Approximately 1 L / 70 m² of surface area.

[info. PACKAGING]

- In bulk
- 1050 L tank
- 210 L drum
- 25 L tank
- 10 L container

[info. STORAGE]

It can be stored for long periods in its original packaging, without alteration, in environments where the temperature does not fall below 5 °C.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

VEGESFORM ECO BG is a release agent specially formulated with special additives that allow **easy demoulding and protection of formwork**. Due to its special composition, it forms a homogeneous film that creates an inert barrier between the formwork and the mixture, improving the exposed finish effect. VEGESFORM ECO BG is particularly suitable for large-scale projects.

VEGESFORM ECO BG degreaser **does not contain solvents or substances that are hazardous to the health of operators**, therefore no special risk, hazard or safety symbols need to be applied to the packaging.

VEGESFORM ECO BG complies with UNI 8866; it is biodegradable, in accordance with European Community Council Directive No. 67/548/EEC, and complies with PCB content requirements under current legislation (European Community Council Directive No. 85/467/EEC of 1 October 1985).

Fields of application

VEGESFORM ECO BG has been specially designed for use as a release agent for smooth or rough formwork made of steel, wood or concrete. Suitable for use in both prefabrication and general construction.

VEGESFORM ECO BG is a ready-to-use release agent; due to its particular effectiveness, it is advisable to apply it by spraying to avoid excessive use. When applied to surfaces, it does not alter the original colour of the concrete and allows the subsequent treatment of the released surfaces with water-based paints, varnishes or plasters.

Instructions for use and consumption

VEGESFORM ECO BG should be sprayed onto the formwork using appropriate sprayers and nozzles, in a very thin layer, or applied to the formwork using a slightly dampened pad.

One litre of VEGESFORM ECO BG can treat approximately 70 m² of surface area.

Equipment

We have developed special equipment for the quick and extremely economical application of our formwork release agents. Our Technical Department is at your disposal to identify the solution that best suits your needs.

VIBROFORM SF

Disarming for quick removal



[info. **PRECAUTIONS**]

Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. **CONSUMPTION**]

Approximately 1 L / 80 m² of surface area.

[info. **DOSAGE**]

1 L / 80 m² of surface area.

[info. **PACKAGING**]

- 1050 L tank
- 210 L drum
- 25 L tank

[info. **STORAGE**]

The product can be stored for long periods in its original packaging in a covered location. Keep the product away from sources of heat.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

VIBROFORM SF is a ready-to-use release agent specially formulated for the **rapid demoulding of concrete products**.

The high degree of lubricity of the product allows for perfect cleaning of the moulds and an excellent finish on the surfaces of the concrete products. VIBROFORM SF is a transparent liquid.

Fields of application

VIBROFORM SF is suitable for all types of instant demoulding of manufactured items, for concrete casting in metal formwork intended for the production of small and medium-sized manufactured items.

Instructions for use and consumption

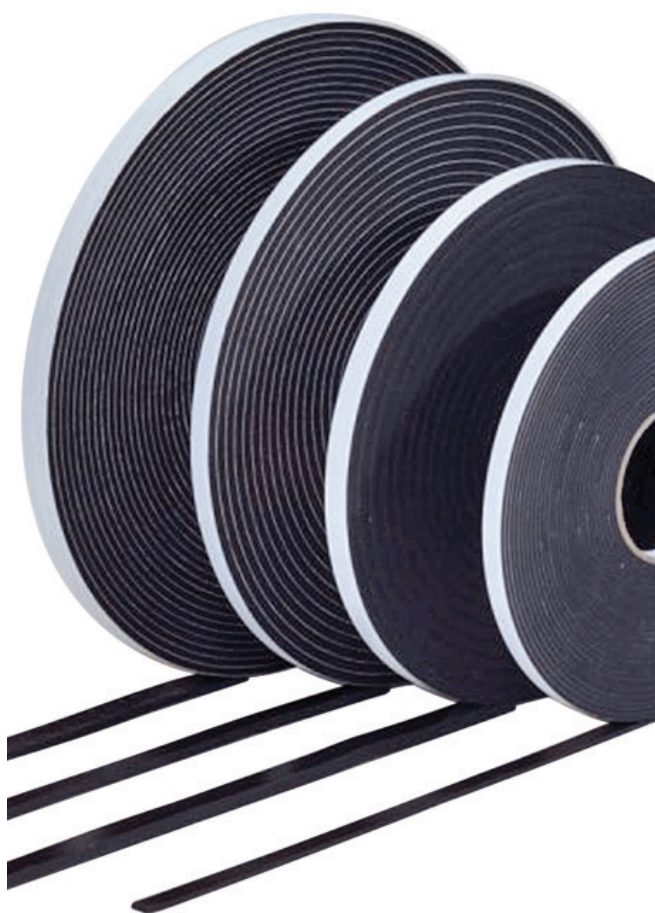
VIBROFORM SF is used as is and can be applied by spray or brush.

Under normal conditions, 1 litre of VIBROFORM SF can cover approximately 80 m² of surface area.

Equipment

We have developed special equipment for the rapid and extremely economical application of our formwork release agents. Our Technical Department is at your disposal to identify the solution that best suits your needs.

Rubber profiles made of rubber and hydrophilic expanding polymers



[info. PRECAUTIONS]

Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. FEATURES]

Section	20 x 20 mm
Density	1,4 kg / L
Tensile strenght	85-125 kg/f/cm ²
Elongation	740-440%

[info. PACKAGING]

10 m roll.

[info. STORAGE]

Packages must be stored in areas protected from sunlight and humidity.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

ADEKA 2020 are rubber and hydrophilic polymer profiles which, **when in contact with water, double their volume while maintaining their original shape but increasing their overall dimensions.**

In other words, when in contact with water, ADEKA 2020 profiles can expand, increasing their initial volume by two times. This expansion exerts pressure (estimated at 15 kg/cm²) on the contact surfaces, ensuring perfect water tightness at structural expansion joints subjected to hydrostatic load, without damaging the concrete to which the profile is fixed. ADEKA 2020 remains stable in its expanded position even if the presence of water is not constant.

Fields of application

They are used to create hydraulic seals (hydro-expansive) in:

- Expansion joints (garages, swimming pools).
- Contraction (foundations, slabs).
- Shear (tunnels, underground railways).
- In the maintenance of old joints (dams).
- In the prefabrication of hydraulic structures (canals, quays).

Installation method

Apply the ADEKA 2020 profile to the expansion joints, gluing it with quick-setting mastic or fixing it with nails. For correct use, there must be at least 10 cm of concrete thickness on either side of the profile (use EXPANDER K1 hydro-expansive paste to join the various profiles). Before resuming casting, place the special polystyrene spacer on top to create a slight anti-ejection effect on the joint with the cast.

Advantages

- ADEKA 2020 is fixed to the substrate by nailing and, if necessary, by adding EXPANDER K1.
- ADEKA 2020 can also be applied to articulated or irregular structures.
- The expansion process is also activated with salt water.
- ADEKA 2020 is completely non-toxic and resistant to chemical attack, particularly from chlorides, sulphates and nitrates.

BENTOGEO GRIP TG

Sodium bentonite-based composite waterproofing membrane



[info. **PRECAUTIONS**]

Dimension the structure taking into account hydrostatic pressure and bentonite pressure. If the groundwater contains abnormal amounts of dissolved salts, seawater infiltration or pollutants, consult the Technical Office of PROIND S.r.l. It is a non-toxic product: prolonged contact with the skin may cause a drying effect, therefore the use of gloves is recommended. In case of accidental contact with the eyes, rinse thoroughly with water and consult a doctor.

[info. **CONSUMPTION**]

Calculate the surface area to be protected, adding an extra 10-20% for overlaps and waste, taking into account a higher percentage for vertical surfaces than for horizontal ones.

[info. **SINGLE ROLL DIMENSIONS**]

Dimensions: 2.6 x 20 m = 52 m²
Thickness: > 6 mm
Minimum bentonite content: 5 kg/m²

[info. **PACKAGING**]

- 52 m² roll (individual rolls wrapped in polyethylene and equipped with lifting straps)
- Pallet of 3 rolls = 150 m²

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

BENTOGEO GRIP TG is a multi-layer composite waterproofing membrane based on sodium bentonite:

- outer layer of high-strength polypropylene fabric (warp and weft) with high resistance to puncturing and traction (dark fabric);
- a layer of natural sodium bentonite with a very high swelling index;
- interface layer of thickened polypropylene non-woven fabric (light-coloured fabric).

The three layers are densely needle-punched: this guarantees resistance to atmospheric agents until BENTOGEO GRIP TG is confined with concrete or soil. The result of these exclusive processes is a self-sealing, waterproof sheet that is resistant to atmospheric agents during installation, adheres perfectly to the structure, is self-repairing and has excellent mechanical resistance.

Fields of application

BENTOGEO GRIP TG is a membrane that can be used on all laying surfaces and structures, particularly foundations, that are exposed to groundwater, even at high pressures or simple drainage.

Instructions for use

- **HORIZONTAL SURFACES (UNDER-SLAB):**
Spread a layer of lean concrete without holes or rough patches to create a flat, clean laying surface. Lay the rolls overlapping the joints by 10 cm and turning them over onto the formwork. Nail the overlaps every 50 cm.
- **VERTICAL SURFACES:**
Remove the formwork slats and fill any holes and imperfections in the casting (crawl spaces) with SIRIOBETON STOP waterproof mortar. Apply BENTOGEO with overlaps of at least 10 cm and nail them every 50 cm. Any horizontal joints must be made with the upper layer overlapping the lower layer ('tile-like') in order to prevent soil from entering the joint during backfilling.
- **GENERAL INSTALLATION CONSIDERATIONS:**
Position the sheet with the 'light' side facing up. Do not overlap where there are concrete joints. Stagger the joints. Fill any holes and imperfections in the concrete with SIRIOBETON STOP mortar (or suitable waterproof mortar) or even bentonite paste such as BENTOPASTA.

Advantages

- It is self-sealing: the semi-solid sodium bentonite gel automatically repairs normal structural damage.
- Joints are immediately self-sealing.
- Weather resistant prior to confinement. Can be applied at any temperature.
- No interfacial water migration immediately after application.
- Quick and easy to apply, with no open flames required for greater operator safety.

BENTOGEO GRIP TP

Sodium bentonite-based composite waterproofing membrane



[info. PRECAUTIONS]

Dimension the structure taking into account hydrostatic pressure and bentonite pressure. If the groundwater contains abnormal amounts of dissolved salts, seawater infiltration or pollutants, consult the Technical Office of PROIND S.r.l.

It is a non-toxic product: prolonged contact with the skin may cause a drying effect, therefore the use of gloves is recommended. In case of accidental contact with the eyes, rinse thoroughly with water and consult a doctor.

[info. CONSUMPTION]

Calculate the surface area to be protected, adding an extra 10-20% for overlaps and waste, taking into account a higher percentage for vertical surfaces than for horizontal ones.

[info. SINGLE ROLL DIMENSIONS]

Dimensions: 1,2 x 5 m = 6 m²

Thickness: > 6 mm

Minimum bentonite content: 5 kg/m²

[info. PACKAGING]

- 6 m² roll (individual rolls wrapped in polyethylene)
- Pallet of 40 rolls = 240 m²

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

BENTOGEO GRIP TP is a multi-layer composite waterproofing membrane based on sodium bentonite:

- outer layer of high-strength polypropylene fabric (warp and weft) with high resistance to puncturing and traction (dark fabric);
- a layer of natural sodium bentonite with a very high swelling index;
- interface layer of thickened polypropylene non-woven fabric (light-coloured fabric).

The three layers are densely needle-punched: this guarantees resistance to atmospheric agents until BENTOGEO GRIP TP is confined with concrete or soil. The result of these exclusive processes is a self-sealing, waterproof sheet that is resistant to atmospheric agents during installation, adheres perfectly to the structure, is self-repairing and has excellent mechanical resistance.

Fields of application

BENTOGEO GRIP TP is a membrane that can be used on all laying surfaces and structures, particularly foundations, that are exposed to groundwater, even at high pressures or simple drainage.

Instructions for use

• HORIZONTAL SURFACES (UNDER-SLAB):

Spread a layer of lean concrete without holes or rough patches to create a flat, clean laying surface. Lay the rolls overlapping the joints by 10 cm and turning them over onto the formwork. Nail the overlaps every 50 cm.

• VERTICAL SURFACES:

Remove the formwork slats and fill any holes and imperfections in the casting (crawl spaces) with SIRIOBETON STOP waterproof mortar. Apply BENTOGEO GRIP TP with overlaps of at least 10 cm and nail them every 50 cm. Any horizontal joints must be made with the upper layer overlapping the lower layer ('tile-like') in order to prevent soil from entering the joint during backfilling.

• GENERAL INSTALLATION CONSIDERATIONS:

Position the sheet with the 'light' side facing up. Do not overlap where there are concrete joints. Stagger the joints. Fill any holes and imperfections in the concrete with SIRIOBETON STOP mortar (or suitable waterproof mortar) or even bentonite paste such as BENTOPASTA.

Advantages

- It is self-sealing: the semi-solid sodium bentonite gel automatically repairs normal structural damage.
- Joints are immediately self-sealing.
- Weather resistant prior to confinement. Can be applied at any temperature.
- No interfacial water migration immediately after application.
- Quick and easy to apply, with no open flames required for greater operator safety.

BENTOPASTA

Bentonite paste for sealing and grouting, applicable with a spatula



[info. PRECAUTIONS]

Do not use bentopasta to repair water leaks through cracks in concrete with subsequent mortar fillings. Non-toxic product.

[info. PACKAGING]

15 kg bucket.

[info. FEATURES CHEMICAL/PHYSICAL]

Appearance	Compact thixotropic filler
Color	Dark grey
Content composition	50% natural sodium bentonite + 50% non-toxic plasticisers
Permeability coefficient	1×10^{-10} m/s
Behaviour in the water	When hydrated, it expands and swells.
Specific Gravity	1,5 kg/L

[info. STORAGE]

Packages must be stored in areas protected from sunlight and humidity.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

BENTOPASTA is a **thixotropic paste that can be applied with a spatula, composed of natural sodium bentonite and non-toxic plasticisers**. When exposed to air, it remains plastic, has good resistance to heavy rain and adheres well to the substrate.

Instructions for use

BENTOPASTA is used in bentonite waterproofing for grouting penetrations and joints between overlapping sheets or panels. It is also used for forming shells, grouting spacers and levelling the installation of bentonite systems.

Installation method

Before laying the bentonite sheets or panels, prepare the wall surfaces by filling any imperfections in the concrete, cracks, cavities and formwork edges with BENTOPASTA using a trowel or spatula, creating a chamfer on the reverse corner of the foundation block with a small trowel.

Advantages

- It does not dry out when exposed to air: this keeps the grouting effective even if carried out before sealing the waterproofing with concrete or backfilling.
- It greatly increases the safety level of the waterproofing system at critical points.
- It allows for optimal preparation of masonry substrates before laying the waterproofing, which is safer and more economical than using premixed cementitious mortars.

BENTOPOL PF

Bentonite powder



[info. **PRECAUTIONS**]

Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. **PACKAGING**]

25 kg bag.

[info. **CHEMICAL/PHYSICAL CHARACTERISTICS**]

Belonging density	0,8 - 0,9 g/ml
Moisture (residue after grinding)	< 15%
Bulging	> 200 ml / 2 g
Liquidity limit LL	> 300%
Plasticity limit LP	> 35%
Plasticity limit IP	> 260%
Eslin index (after 2 hours)	300%
Eslin index (after 8 hours)	500%
PH (5% suspension)	9 - 10

[info. **STORAGE**]

Packages must be stored in dry environments and protected from rain.

BENTOPOL PF is a **hydro-expansive sodium bentonite powder with a suitable grain size**, which can be applied with a spatula for sealing and grouting.

Instructions for use

Simple placement in the affected site, providing continuity and ensuring subsequent confinement.

Advantages

BENTOPOL PF allows you to reach all points where it is impossible to place the sheet or panel or where quantitative powder reinforcement is required.

[info. **CHEMICAL ANALYSIS**]

Na O	> 95%
Mg O	< 4,80%
Al O	> 16,0%
Si O	> 60,0%
P O ₅	< 0,15%
K O	< 1,00%
Ca O	< 3,40%
Ti O	< 0,50%
Mn O	< 0,10%
Fe O	< 4,65%
Loss on ignition	< 5,75%

[info. **XRD MINERALOGICAL ANALYSIS**]

Smectite	> 95%
Other minerals	< 5%

EXPANDER K1

Hydro-expansive sealing paste in cartridge form for waterproofing joints and cracks



[info. PRECAUTIONS]

Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. PACKAGING]

Box of 6 cartridges, 320 ml each.

[info. TECHNICAL SPECIFICATIONS]

Density	1,25 g/ml
Viscosity	> 20,5 mm ² /s
Extrusion capacity	≤ 20"
Slump	≤ 10 mm
Swelling properties	85-200%
Curing time	Summer: 2 days / Winter: 3 days

[info. STORAGE]

The EXPANDER K1 product can be stored for long periods at temperatures between 5 °C and 32 °C in cool, dry environments, away from sources of heat.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

EXPANDER K1 is a **single-component synthetic sealant combined with hydrophilic polymers that give it its expansive properties by absorbing water**. When fresh, it is an adhesive paste that transforms into a soft, resistant rubber.

Fields of application

The EXPANDER K1 is used in all cases where it is necessary to construct a seal on site with self-expanding characteristics, such as:

- Sealing ring between pipes and masonry.
- Sealing cracks.
- Waterproof elastic joint between prefabricated elements (septic tanks, manholes, drains).
- Hydro-expansive gasket for blade and tubular spacers during casting and in situ.

How to use

- Clean the affected area and remove any oil, dust and loose debris.
- Break the seal at the top of the cartridge and insert the nozzle.
- Cut the nozzle to the desired diameter for extruding the product, based on the width of the surface where EXPANDER K1 is to be applied.
- Apply the product continuously to ensure complete waterproofing.

Advantages

- It absorbs water when it comes into contact with it and expands to twice its volume.
- Easy to apply thanks to its 320 ml cartridge packaging.
- Adheres to all types of surfaces (concrete, metal, glass, etc.).
- Can also be used on wet surfaces.
- Deforms on contact with water, becoming an excellent elastic rubber, following the gaps created by the movements of the structures.
- Once hardened, it offers excellent durability, high chemical and physical resistance, and watertight sealing.
- Guarantees high resistance to chemical attack (chlorides, sulphates, nitrites).

GIUNTO BT 100

Hydro-expansive joint based on sodium bentonite and butyl rubber



[info. PRECAUTIONS]

If the groundwater contains abnormal amounts of dissolved salts, seawater infiltration or pollutants, consult the PROIND technical office for clarification and any necessary preliminary analyses. The GIUNTO BT 100 is suitable for concrete repairs with through reinforcing bars but not for movement joints.

[info. PACKAGING]

- Cardboard box containing 25 m of GIUNTO BT 100 in 5 m rolls
- 5 rolls per box

[info. PHYSICAL CHARACTERISTICS]

Dimensions	Section: 20x25 mm - Length: 5 m
Color	Black
Expansion	up to 300%
Stretching	up to 300%
Pressure resistance	8 bar (80 m water column)
Specific gravity	1,5 g/cm ³ (according to ASTM D71)
Installation temperature	-15 °C / +60 °C
Operating temperature	-45 °C / +120 °C

[info. STORAGE]

Packages must be stored in areas protected from sunlight and humidity.

GIUNTO BT 100 is a **joint sealant based on natural sodium bentonite and butyl rubber for sealing concrete joints.**

Fields of application

The GIUNTO BT 100 is used in concrete casting in reinforced concrete structures below the standard height to prevent water leakage through the discontinuity gap between the castings.

How to use

- Level the laying surface where necessary.
- Apply GIUNTO BT 100 at a minimum distance of 7 cm from the outside of the casting.
- To ensure continuity between two GIUNTO BT 100 joints, place them side by side for at least 5 cm.
- Nail every 30 cm.
- If necessary, use a metal confinement mesh.

Advantages

- Ability to re-expand to its maximum expansion level without losing consistency and therefore without the risk of the bentonite gel being washed away.
- Delayed expansion for installation even in difficult weather conditions (minimal expansion in the first 48 hours).
- The bentonite and butyl rubber compound can come into contact with drinking water without causing any pollution problems.

Important

Avoid using spacers below the kerb installation level or resting on it. Therefore, start the reinforcement panels with a raised lining and not directly from the bottom of the casting.

GIUNTO BT 200

Hydro-expansive joint based on sodium bentonite and butyl rubber



[info. PRECAUTIONS]

If the groundwater contains abnormal amounts of dissolved salts, sewerage infiltration or pollutants, consult the PROIND technical office for clarification and any necessary preliminary analyses. The GIUNTO BT 200 is suitable for concrete repairs with through reinforcing bars but not for movement joints.

[info. PACKAGING]

- Cardboard box containing 25 m of GIUNTO BT 200 in 5 m rolls
- 5 rolls per box

[info. PHYSICAL CHARACTERISTICS]

Dimensions	Section: 20x30 mm - Length: 5 m
Color	Black
Expansion	up to 300%
Stretching	up to 300%
Pressure resistance	8 bar (80 m water column)
Specific gravity	1,5 g/cm ³ (according to ASTM D71)
Installation temperature	-15 °C / +60 °C
Operating temperature	-45 °C / +120 °C

[info. STORAGE]

Packages must be stored in areas protected from sunlight and humidity.

GIUNTO BT 100 is a **joint sealant based on natural sodium bentonite and butyl rubber for sealing concrete joints.**

Fields of application

The GIUNTO BT 200 is used in concrete casting in reinforced concrete structures below the standard height to prevent water leakage through the discontinuity gap between the castings.

How to use

- Level the laying surface where necessary.
- Apply GIUNTO BT 100 at a minimum distance of 7 cm from the outside of the casting.
- To ensure continuity between two GIUNTO BT 100 joints, place them side by side for at least 5 cm.
- Nail every 30 cm.
- If necessary, use a metal confinement mesh.

Advantages

- Ability to re-expand to its maximum expansion level without losing consistency and therefore without the risk of the bentonite gel being washed away.
- No loss of product characteristics after rehydration.
- Delayed expansion for installation even in difficult weather conditions (minimal expansion in the first 48 hours).
- The bentonite and butyl rubber compound can come into contact with drinking water without causing any pollution problems.
- The product does not deform after swelling, maintaining its characteristics unchanged.

Important

Avoid using spacers below the kerb installation level or resting on it. Therefore, start the reinforcement panels with a raised lining and not directly from the bottom of the casting.

Single-component polyurethane sealant adhesive with medium elastic modulus for building, industrial and naval construction



[info. PRECAUTIONS]

Clean equipment with acetone or solvent. If the product has not hardened, paper or a cloth can be used. Once the product has hardened, it can only be removed mechanically. To avoid contact with the skin, we recommend using latex, rubber or polyethylene gloves. If the product comes into contact with the skin, remove it immediately with soap and water.

[info. DOSAGE]

JOINT SIZE	LINEAR METRES
5x5 mm	34 m
10x10 mm	6 m
15x10 mm	4 m
20x10 mm	3 m
25x12,5 mm	1,9 m

[info. PACKAGING]

- 600 ml aluminium bags
- 20 bags per pack

[info. STORAGE]

The product in its original sealed packaging can be stored for 12 months at a temperature between 5 °C and 25 °C in a cool, dry place. Keep away from heat sources.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

GIUNTOFLEX is a **single-component polyurethane adhesive/sealant with medium elastic modulus** that cross-links under the influence of atmospheric humidity. Easy to work with, it has thixotropic properties that prevent dripping. It maintains permanent elasticity and offers high resistance to abrasion and tearing. It effectively resists atmospheric agents, chemicals and UV rays. It can be painted over.

Fields of application

GIUNTOFLEX adheres to cementitious substrates, bricks, tiles, building materials in general, wood, aluminium, sheet metal, steel and copper. Extremely versatile, it is used as a sealant for floor joints, for outdoor use on cement joints in irrigation channels, even in contact with water, for sealing fixtures between walls and window frames, and in metal constructions: sheet metal work, roofing and air ducts, and in the assembly of double glazing with butyl barrier. It can also be used to seal micro-cracks in concrete pipes.

Advantages

- Bonds and seals at the same time. Easy to apply with excellent consistency for finishing.
- Permanently elastic; allows joint movement of $\pm 25\%$.
- Good thixotropy, does not drip.
- Impact and shock resistant with good vibration and sound damping properties.
- Excellent adhesion without primer on all typical building and industrial materials.
- Elastic bonding between metal, plastic, glass and other materials.
- Does not stain. Neutral behaviour, does not attack the bonding surface.
- Good resistance to ageing, weathering and detergents, sea water, brackish water.

[info. PHYSICAL CHARACTERISTICS]

Polymerisation	Moisture-curing	100% elastic modulus	Approximately 0.7 N/mm ² (ISO 37 DIN 53504)
Color	Grey	Tensile strength	Approximately 1.7 N/mm ² (ISO 37 DIN 53504)
Thickness hardening	Approximately 2,3 mm (24 h - 23 °C and 50% ur)	Elongation at break	Approximately 570% (ISO 37 DIN 53504)
Shore A hardness	Approximately 38 (Din 53505)	Joint movement capacity	$\pm 25\%$ of the joint width
Specific weight	Approximately 1,33 g/cm ³ (23 °C and 50% ur)	Application temperature	+5 °C / +40 °C
Skin time	Approximately 50 min (23 °C and 50% ur)	Thermal resistance	-40 °C / +100 °C

Water repellent additive for concrete and mortar



[info. **PRECAUTIONS**]

No specific precautions. In case of contact with eyes: rinse thoroughly with water. Consult the toxicological data sheet.

[info. **DOSAGE**]

0.8-1.5% of the weight of the cement.
(0.8-1.5 kg of Hydromas per 100 kg of cement).

[info. **PACKAGING**]

- 200 kg drum
- 25 kg container
- 10 kg container
- 5 kg container

[info. **STORAGE**]

HYDROMAS should be stored in an environment with temperatures not below 5 °C. Avoid freezing.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

HYDROMAS gives concrete and mortar a **high degree of impermeability against water reflux in capillaries and under pressure.**

Fields of application

Due to its characteristics, HYDROMAS is particularly suitable for the following concrete works:

- Dams, hydraulic, maritime and port works.
- Foundation and basement walls.
- Tunnels.
- Terraces and roofs in reinforced concrete.
- Waterproofing of plaster mortars.
- Cellar walls and floors.
- Walls exposed to heavy rain.

Instructions for use

HYDROMAS must be dispersed in the mixing water before adding the cement and aggregates.
It is advisable to stir the product before use.

Advantages

Being composed of special water-repellent groups, which disperse evenly, it acts as a water repellent in concrete during mixing. As these groups are insoluble in water, the water repellent action remains unchanged over time, thus offering the following advantages:

- No damp stains.
- Elimination of hairline cracks and chalking.
- Blocking of capillary water rise, even under pressure.

Compatibility

HYDROMAS is compatible with all types of cement and other additives (e.g. superplasticisers and plasticisers) manufactured by Proind s.r.l.

Water repellent - waterproofing agent for stone materials, concrete and mortar



[info. PRECAUTIONS]

HYDROSTOP contains flammable solvents: during application, it is advisable not to smoke and to ensure good ventilation when working in closed or poorly ventilated areas.

The applicator must protect their face, eyes and hands.

Consult the toxicological data sheet.

[info. CONSUMPTION]

Varies depending on the absorption of the substrate: on average, consumption of 150-400 cm³/m² can be expected.

[info. PACKAGING]

- 25 L tank
- 5 L container

[info. STORAGE]

The product must be kept away from flames and sources of heat.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

HYDROSTOP is a liquid consisting of a mixture of special oligomeric organosiloxane formulations in solvent with **water-repellent and waterproofing properties, for impregnating building materials**. Thanks to its characteristics, it modifies the surface tension of the substrate so that **heavy rain and high concentrations of ambient humidity are not absorbed by the substrate**.

HYDROSTOP is not a film-forming product but rather an impregnating product; this means that, as it does not create surface films, it does not alter the visual appearance or breathability characteristics of the materials to which it is applied.

Instructions for use and consumption

HYDROSTOP is suitable for protecting all building materials (stone, brick, tuff, etc.) and both lime and cement-based plasters.

It can be used to protect friezes and plasters on historic buildings from driving rain, without altering their appearance, while ensuring effective protection against atmospheric agents.

HYDROSTOP can be applied by spray, brush or roller, in two or more coats wet on wet, with consumption varying according to the absorption of the material to be treated; on average, consumption can vary from 150 to 400 cm³/m².

Advantages

- Protects surfaces from damp stains and prevents the formation of moss and mould.
- Does not alter the characteristics (appearance and breathability) of the materials to which it is applied.
- Thanks to its ease and speed of application, Hydrostop allows you to carry out a water-repellent treatment at a low cost.
- Its stability to ultraviolet rays ensures good durability over time.

Warnings: substrate preparation

The substrate must be cleaned of impurities, dust, mould or moss, loose parts and substances that could prevent impregnation; to do this, we recommend brushing or sandblasting the substrate. In the presence of high concentrations of efflorescence, we recommend pressure washing the substrate with solutions of water and hydrochloric acid or with hot water in the case of fatty substances; then rinse the substrate with plenty of water. HYDROSTOP must be applied to a dry substrate in dry weather and is not suitable for structures in permanent contact with water.

We recommend not carrying out the treatment if there is an imminent risk of rain or on structures that are excessively hot or exposed to prolonged sunlight.

Waterproof adhesive for mortars, concrete and plaster



[info. **PRECAUTIONS**]

Do not apply the product to very hot surfaces or surfaces exposed to prolonged sunlight. Avoid application if there is an immediate risk of rain. Consult the toxicological data sheet.

[info. **DOSAGE**]

Mixing ratios with typical values.

FIELDS OF APPLICATION	WATER	RESIVIL	CEMENT	SAND
Grout pumping	1 kg	1 kg	2,5 kg	-
Patches and repairs	3 kg	1 kg	1 kg	3 kg
Plaster (slurry)	1 kg	1 kg	1 kg	1 kg
Plaster (finish)	4 kg	1 kg	1 kg	3 kg

[info. **PACKAGING**]

- 220 kg drum
- 25 kg container
- 10 kg container
- 5 kg container

[info. **STORAGE**]

The product must be kept away from frost and heat sources. The product cannot be used at temperatures below 8 °C.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

RESIVIL is a synthetic polymer compound specially designed for the **production of cementitious mortars with high adhesive strength to the substrate**. RESIVIL gives the mixture considerable thixotropic properties, facilitating the restoration of vertical surfaces.

Fields of application

- Shotcrete.
- Patching and repairs in general (small or large cracks in floors, walls, tunnels, etc.).
- Industrial floors, runways and horizontal surfaces in general.
- Application of plaster on smooth substrates.

Instructions for use and consumption

- **SPEEDY RECOVERY:**
Apply a very fluid whitewash to the existing carpet by adding a solution consisting of 1 part water and 1 part RESIVIL to the cement. Pour when the whitewash is still fresh.
- **PATCHES AND REPAIRS:**
Prepare a mortar mixture of sand and cement in a ratio of 3 to 1 and hydrate it with a solution composed of 3 parts water and 1 part RESIVIL.
- **PLASTER AND FILLERS OF LIMITED THICKNESS:**
Apply a fluid mortar made with one part sand and one part cement hydrated with a solution made with one part RESIVIL and one part water to the surfaces to be coated. Then apply the plaster composed of three parts sand and one part cement hydrated with a solution of one part RESIVIL and four parts water.

SIRIO SILICAFUME

Densified microsiliates



[info. PRECAUTIONS]

- Avoid freezing.
- Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. CONSUMPTION]

5-15% of the weight of the cement.

[info. PACKAGING]

- 20 kg bag
- 1200 kg Big Bag

[info. STORAGE]

Store SIRIO SILICAFUME in dry conditions.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIO SILICAFUME, commonly known as silica fume or microsiliates, is a product derived from the reduction process of quartzite during the production of ferro-silicon alloys or metallic silicon. This reduction process, which takes place in electric arc furnaces at a temperature of 2000 °C (equal to that existing during the formation of natural pozzolans), develops a gas with a high silicon oxide content which, on contact with air, oxidises and transforms into amorphous silicon dioxide (SiO₂). The silicon dioxide is captured in filters that purify it from combustion residues and eliminate any undesirable reactions in the concrete. At the end of this process, a powder is obtained with characteristics such as high fineness, a spherical shape and an amorphous structure with a size of 0.1µ (micron).

Fields of application

Wherever high-performance concrete with high strength, impermeability and durability characteristics is required. Also ideal for underwater casting in the presence of groundwater.

Advantages

- The alkali-aggregate reaction is cancelled out.
- Using SIRIO SILICAFUME results in sulphate-resistant concrete.
- Chloride penetration is reduced by 50-100%.
- Permeability is reduced by a factor of 10.
- Mechanical strength is increased by 50 to 100%.
- By adding SIRIO SILICAFUME to concrete, it is possible to significantly increase the adhesive power of the mixture without compromising workability.
- Carbonation is reduced by approximately 100 times.
- Electrical resistivity is increased by 500 times, giving the product high anti-corrosion power.
- With SIRIO SILICAFUME added to concrete, chemical resistance is considerably increased.
- Using SIRIO SILICAFUME, it is possible to produce concrete with high durability.

SIRIOBARRIERA

Water-repellent waterproofing agent for the restoration of masonry affected by rising damp



[info. **PRECAUTIONS**]

- Avoid freezing.
- When using SIRIOBARRIERA, take all necessary precautions for flammable products. Do not smoke, do not expose the product to heat sources, do not ingest the product, avoid direct contact with eyes and skin, use protective masks and gloves. Consult the toxicological data sheet.

[info. **DOSAGE**]

From 4 to 20 litres per linear metre depending on the thickness and nature of the walls to be treated.

[info. **PACKAGING**]

- 210 L drum
- 25 L tank
- 5 L container

[info. **STORAGE**]

Store the product in closed packaging, in dry rooms and away from heat sources.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOBARRIERA is an oligomeric organosiloxane compound specially formulated for the **treatment of absorbent building materials, in which it develops a breathable, water-insoluble resinous network that prevents capillary rise of water in masonry.**

Fields of application

SIRIOBARRIERA is used for chemical barrier treatments against capillary water rise in masonry made of bricks, stones and concrete, by means of low pressure injection (max 2-5 bar).

Instructions for use and consumption

1. **Preparation of walls:** remove the external wall coverings in the area to be treated. If possible, remove the paint or wallpaper on the inside to allow the moisture contained in the masonry to evaporate. Seal any cracks larger than 0.3 mm.
2. **Hole size:** the holes must be made as close as possible to the ground, never exceeding 20 cm in height from the internal floor level, and must have a diameter of 12 or 18 mm depending on the material used for the injection and a depth of 10 cm from the opposite side of the masonry. The distance between the holes must be between 10 and 20 cm; in the case of masonry thicker than 50 cm or mixed or stone walls, two series of holes are required: one on the inside and one on the outside of the masonry.
3. **Injection:**
 - Equipment: MABI injectors, powered by a pump capable of delivering a maximum pressure of 5 bar.
 - Procedure: inject SIRIOBARRIERA for about 5 minutes at a pressure between 0.5 and 2 bar. The intensity and duration of injection must take into account the masonry (porosity and diameter of the capillaries). As a rule, it is preferable to use low pressure and long injection times in order to promote the distribution of the product in the masonry.
4. **Plastering:** in order to apply the coating plaster, immediately after dehumidification, we recommend using a highly breathable plaster such as our SIRIOBETON IDR.

Equipment

We have special injectors and pneumatic pumps for injecting the product. Our Technical Department is at your disposal to identify the solution that best suits your needs.

SIRIOBARRIERA W

Water-repellent impregnating agent, dilutable in water, for the waterproofing and hydrophobic treatment of masonry against rising damp



[info. PRECAUTIONS]

SIRIOBARRIERA W concentrate is flammable: therefore, take all necessary precautions for flammable products. Do not smoke, do not expose the product to heat sources, do not ingest, avoid contact with skin and eyes, use protective masks and gloves. Once mixed with water, SIRIOBARRIERA W must be used within 8-10 hours and must be stored away from frost. Consult the toxicological data sheet.

[info. CONSUMPTION]

Approximately 1.5 litres of product per linear metre of barrier in the presence of mixed masonry with a thickness of 50 cm, equal to a quantity of aqueous solution to be injected of 10 litres (1.5 litres of product + 8.5 litres of water).

[info. PACKAGING]

- 210 L drum
- 25 L tank
- 5 L tank

[info. STORAGE]

Store the product in closed packaging, in dry rooms and away from heat sources. Avoid freezing.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOBARRIERA W belongs to a new generation of catalysed monomer silanes, specially formulated for the **treatment of absorbent building materials, in whose capillaries it develops a barrier that is insoluble to water but permeable to water vapour, preventing the capillary rise of water in masonry.**

Fields of application

Due to its high degree of penetration and protection, SIRIOBARRIERA W is particularly suitable for treating capillary rising damp using a chemical barrier with low-pressure injection (with MABI injectors).

SIRIOBARRIERA W can be used for the non-film-forming water-repellent treatment of absorbent building materials.

Instructions for use and consumption

- Preparation of walls:** remove the external wall coverings in the area to be treated. If possible, remove the paint or wallpaper on the inside to facilitate the evaporation of moisture contained in the masonry.
- Hole size:** the holes must be made as close as possible to the ground, never exceeding 20 cm in height from the internal floor level, and must have a diameter of 12 or 18 mm depending on the material used for the injection and a depth of 5-10 cm from the opposite side of the masonry. The distance between the holes must be between 10 and 20 cm. In the case of masonry thicker than 50 cm, or mixed or stone walls, two sets of holes are required: one on the inside and one on the outside of the masonry.
- Injection:**
 - Equipment: MABI injectors, powered by a pump capable of delivering a maximum pressure of 5 bar.
 - Procedure: inject SIRIOBARRIERA W for approximately 5 minutes at a pressure between 0.5 and 3 bar. The intensity and duration of injection must take into account the masonry (porosity and diameter of the capillaries). As a rule, it is preferable to use low pressure and long injection times in order to promote the distribution of the product in the masonry.
- Concentration of the solution:** 5 to 15% of SIRIOBARRIERA W in water depending on the structure of the wall. The choice of concentration must take into account the porosity and diameter of the capillaries. The lower the porosity and the smaller the capillaries, the lower the concentration should be (minimum 5%). SIRIOBARRIERA W must be diluted using drinking water, taking care to mix the two components thoroughly until the solution is completely transparent. Ready-to-use solutions must be used within 8-10 hours of preparation.
- Plastering:** in order to apply the coating plaster, immediately after dehumidification, we recommend using a highly breathable plaster such as our SIRIOBETON IDR.

Equipment

We have special injectors and pneumatic pumps for injecting the product.

Our Technical Department is at your disposal to identify the solution that best suits your needs.

SIRIOBARRIERA WR

Ready-to-use water-based water-repellent impregnating agent for the waterproofing and water-repellent treatment of masonry against rising damp



[info. PRECAUTIONS]

Although SIRIOBARRIERA WR is a water-based product, it is recommended to use all safety equipment (such as masks, gloves and goggles) when carrying out all necessary work.

Do not smoke, do not expose the product to heat sources, do not ingest, avoid contact with skin and eyes. Consult the toxicological data sheet.

[info. CONSUMPTION]

Approximately 1.5 L of product per ml of barrier in the presence of mixed masonry with a thickness of 50 cm.

Hypothetical consumption for a uniform type of masonry: for more accurate values, it is also advisable to carry out tests with water.

[info. PACKAGING]

- 210 L drum
- 25 L tank
- 5 L tank

[info. STORAGE]

Store the product in closed packaging, in dry rooms and away from heat sources.

Avoid freezing.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOBARRIERA WR belongs to a new generation of specially formulated catalysed monomer silanes for the **treatment of absorbent building materials, in whose capillaries it develops a barrier that is insoluble to water but permeable to water vapour, preventing capillary rise of water in masonry.**

Fields of application

Due to its high degree of penetration and protection, SIRIOBARRIERA WR is particularly suitable for treating capillary rising damp using a chemical barrier with low-pressure injection (with MABI injectors). SIRIOBARRIERA WR can be used for non-film-forming water-repellent treatment of absorbent building materials.

Instructions for use and consumption

1. **Preparation of walls:** remove the external wall coverings in the area to be treated. If possible, remove the paint or wallpaper on the inside to facilitate the evaporation of moisture contained in the masonry.
2. **Hole size:** the holes must be made as close as possible to the ground, never exceeding 20 cm in height from the internal floor level, and must have a diameter of 12 or 18 mm depending on the material used for the injection and a depth of 10 cm from the opposite side of the masonry. The distance between the holes must be between 10 and 20 cm; in the case of masonry thicker than 50 cm or mixed or stone walls, two series of holes are essential: one on the inside and one on the outside of the masonry.
3. **Injection:**
 - Equipment: MABI injectors, powered by a pump capable of delivering a maximum pressure of 5 bar.
 - Procedure: inject SIRIOBARRIERA for about 5 minutes at a pressure between 0.5 and 2 bar. The intensity and duration of injection must take into account the masonry (porosity and diameter of the capillaries). As a rule, it is preferable to use low pressure and long injection times in order to promote the distribution of the product in the masonry.
4. **Plastering:** in order to apply the coating plaster, immediately after dehumidification, we recommend using a highly breathable plaster such as our SIRIOBETON IDR.

Equipment

We have special injectors and pneumatic pumps for injecting the product.

Our Technical Department is at your disposal to identify the solution that best suits your needs.

SIRIOBETON STOP

Cementitious mortar for instantly blocking water infiltration



[info. PRECAUTIONS]

Use the precautions recommended for the use of accelerating cements.

[info. WATER DOSAGE]

22% water per 100 kg of SIRIOBETON STOP.

[info. CONSUMPTION]

Approximately 19 kg/m² of surface area per 1 cm of thickness.

[info. PACKAGING]

5 kg bucket.

[info. STORAGE]

It has a shelf life of 6 months in its original, unopened packaging, stored in a dry, protected environment at a temperature between 5 °C and 35 °C.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOBETON STOP is a **fast-setting mixture designed to instantly block water infiltration**. It does not shrink but, on the contrary, expands during setting, forming a single, solid body with the masonry.

Instructions for use and consumption

1. Prepare the hole or crack, preferably in a dovetail shape, with a minimum width and depth of 2-3 cm.
2. Clean the substrate of any loose parts and dust.
3. Prepare the mixture with water to achieve the consistency of normal mortar, preparing quantities that can be applied in a few minutes.
4. Apply SIRIOBETON STOP by pressing firmly into the hole or crack.
5. In areas where the water pressure is higher, do not apply SIRIOBETON STOP immediately: wait for it to start heating up and then press the product firmly into the crack, keeping it pressed until it has set and the water is blocked.
6. If large areas need to be sealed, we recommend applying SIRIOBETON STOP starting from the highest point and working down gradually, once the material has hardened, until the size of the hole or crack is reduced; in this case, we recommend preparing pipes for water drainage.

Cold asphalt



[info. PRECAUTIONS]

There are no particular safety regulations as the material is non-flammable and non-toxic. Consult the toxicological data sheet.

[info. PHYSICAL FEATURES]

Specific weight	1,01-1,03 kg/L
Percentage dry	52%
Drying time	Thickness: < 1 mm: 2 h / 1-2 mm: 6 h
Average yield	2 m ² /kg

[info. DOSAGE]

1 kg of SIRIOBIT treats 2 m² of surface area.

[info. PACKAGING]

20 kg bucket.

[info. STORAGE]

The product stored for a long time may develop a layer of water on the surface, which can be easily removed by shaking well. SIRIOBIT must be stored in an environment with temperatures not lower than 5 °C. Avoid freezing.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOBIT is a dark brown, paste-like bituminous emulsion, **ideal for creating waterproof coatings on walls against the ground and concrete structures intended for contact with or containment of water.**

Fields of application

SIRIOBIT is suitable for general waterproofing; it can be diluted in water in any proportion and can be easily mixed with fillers such as cement or sand.

Instructions for use and consumption

SIRIOBIT can be applied with a trowel, brush or spray, using perfectly clean tools. Any dilution must be carried out exclusively with cold water; never use solvents or heat the product. When applying multiple coats, always wait for the previous coat to dry completely. Diluted with water in a ratio of 1:3, SIRIOBIT can be used as an impregnating primer.

Acrylic resin for casting repairs and surface waterproofing for exteriors



[info. PRECAUTIONS]

Do not apply the product to very hot surfaces or surfaces exposed to prolonged sunlight. Avoid application if there is an immediate risk of rain. Consult the toxicological data sheet.

[info. CONSUMPTION]

Approximately 250-300 g/m² of surface area (absorption function of the substrate).

[info. DOSAGE]

1 part SIRIOCRYL to 3 parts water.

[info. PACKAGING]

- 1050 kg tank
- 220 kg drum
- 25 kg container
- 10 kg container
- 5 kg container

[info. STORAGE]

The product is sensitive to frost and must be stored at temperatures above 5 °C. Do not apply the product at temperatures below 5 °C.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOCRYL is a concentrated, APEO-free acrylic copolymer, suitably formulated to **protect any concrete or stone surface from chemical attack, frost and pollutants (acid rain, carbonation, exhaust fumes, etc.)**. It can be mixed into a cementitious mixture to produce grouts or mortars that are particularly resistant to atmospheric agents and strongly adhere to existing cementitious substrates. Also suitable for concrete repair work.

Fields of application

Surface waterproofing of walls against the ground, lift shafts, basements, natural or artificial stone, cement-based plaster, manufactured concrete panels, concrete repairs, etc. Treated surfaces have an excellent degree of waterproofing, and as the film is elastic, they will have a virtually unlimited lifespan. Non-structural concrete repairs.

Instructions for use and consumption

Mix one part resin with three parts water. The resulting product should be applied with a brush or spray onto the surface to be waterproofed in a maximum of two coats, taking care to apply the subsequent coats before the product has polymerised (wet on wet).

The surfaces to be waterproofed must be cleaned of dust and any other dirt that may be present; wet the wall with water until saturated.

Surfaces treated in this way have an excellent degree of waterproofing, and as the film is elastic, they will have an unlimited lifespan.

Do not apply the product to very hot surfaces or when there is an immediate risk of rain. Protect the surface after application.

Consumption: 250-300 g/m² (depending on the absorbency of the substrate).

[info. PHYSICAL FEATURES]

Brookfield viscosity	5000-11000 cPs @ 20 °C (#6, 20 rpm)	Glass transition temperature Tg	~18°C
Appearance	Milky white	Density at 23 °C	1.04 g/cm ³
Solid content	49-51	Elongation at break	400%
pH	8-9	Breaking load	6,8 N/mm ²
Prevailing particle diameter	0,12 µm		

Restorative waterproofing agent with consolidating power for degraded concrete surfaces



[info. PRECAUTIONS]

Contains flammable solvent. During application, it is recommended not to smoke and to protect eyes and skin. Ensure good ventilation when applying indoors. Consult the toxicological data sheet.

[info. CONSUMPTION]

They vary depending on the nature of the substrate and the application system; on average, 1 litre of SIRIOSAN can treat 5 m² of surface area.

[info. PACKAGING]

- 25 L drum
- 5 L drum
- 1 L tin
- Box of 24 x 1 L
- Box of 12 x 1 L

[info. STORAGE]

SIRIOSAN must be kept away from flames and sources of heat.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOSAN is a binary product, i.e. composed of an ethyl silicate (consolidant) and a solvent-based water repellent with **high penetration capacity for capillary absorption into degraded concrete**. It activates a hydrolytic process that restores the original characteristics of compromised materials and forms a **waterproof and breathable barrier that does not form a film, is resistant to atmospheric agents** and is durable over time, without generating stains or efflorescence.

Fields of application

SIRIOSAN is particularly suitable for the restoration and waterproofing of balconies and terraces, as well as for the protection of concrete elements and granite, marble or stone structures subject to environmental or chemical degradation.

Instructions for use

SIRIOSAN is a single-component waterproofing system that is easy to apply. The surfaces to be treated must be clean and dry, free of paint, encrustations, organic residues or other impurities. Any cracks must be sealed beforehand with SIRIOSEAL.

SIRIOSAN is applied with a brush, roller or low-pressure sprayer (max 2 atmospheres) until the surfaces are completely saturated. Drying times vary depending on the temperature and porosity of the substrate: generally, after 10-12 hours the surface is waterproofed, although the cycle is completed after 8-10 days.

The ideal application temperature is between 10 °C and 25 °C; avoid treatment in case of rain, risk of imminent precipitation or on structures overheated by prolonged exposure to the sun.

Advantages

- Inhibits the penetration of atmospheric agents.
- Deep penetration into capillaries.
- High consolidating effect.
- Prevents the formation of efflorescence and mould.
- Reliable waterproofing effect.

Cementitious mixture for waterproofing masonry and concrete structures



[info. **PRECAUTIONS**]

Do not apply Sirioseal at temperatures below 5 °C. Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. **CONSUMPTION**]

2.5-3 kg/m² (per two-coat cycle).

[info. **DOSAGE**]

Average water required for fluid mixtures: 24-26 L per 100 kg of SIRIOSEAL.

[info. **PACKAGING**]

- 25 kg bag for SIRIOSEAL GREY or WHITE
- 5 kg bucket for SIRIOSEAL GREY

[info. **STORAGE**]

The original sealed packaging preserves and protects the product. Do not use the contents of torn or open bags or buckets if you notice clumping of the powder.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOSEAL is a ready-to-use cement-based powder product with added additives which, when mixed with water, **produces a thin coating that is resistant to water penetration.**

Fields of application

- Protection of concrete from aggressive marine and industrial environments.
- Waterproof coatings for masonry or concrete structures such as tanks, canals, swimming pools and water purification plants.
- Waterproofing even in the presence of positive or negative hydrostatic pressure.
- Waterproofing of retaining walls, basements and lift shafts.

Instructions for use

1. Clean the substrate by scarifying it and ensuring that it is sufficiently sound, free from deteriorated or loose parts; remove any rust from the ironwork, preferably by sandblasting. Wash the scarified area with pressurised water. Any leaks or pressurised water ingress must be sealed using SIRIOBETON STOP.
2. Bagnare le superfici di contatto fino ad imbibimento totale per ottenere la saturazione della porosità del supporto; l'acqua in eccesso, in superficie o cavità superficiale, dovrà essere rimossa prima dell'applicazione di SIRIOSEAL.
3. When applying at high ambient temperatures, it is recommended to use a mixing water consisting of 3 litres of water and 1 kg of SIRIOSEAL Component B, which ensures secure adhesion to both vertical and horizontal surfaces.
4. Apply a first coat of Sirioseal with a trowel, brush or brush, taking care to completely saturate any pores and cracks. The second coat, for finishing, can be applied with the same equipment used for the first coat, or using a plastering machine, taking care to wait at least 24 hours after applying the first coat.
5. After application, as soon as it has set, keep the surface of SIRIOSEAL moist or, in any case, prevent the water from evaporating quickly; this is particularly important in hot, dry and windy weather.

Advantages

- Quick and easy application with a trowel, brush or scrubbing brush.
- Excellent adhesion to the substrate, excellent durability.
- High degree of waterproofing, with negative or positive pressure.
- Water vapour permeability.

Catramina - Protective bituminous coating with regenerated solvents for damp surfaces with high dry residue



[info. PRECAUTIONS]

During application, it is essential to protect the skin and eyes. In case of contact, wash thoroughly with water and consult a doctor. Consult the toxicological data sheet.

[info. PHYSICAL FEATURES]

Appearance	Liquid
Dry residue (m/m at 130 °C)	38-42%
Viscosity	11-15"
Density	0,93±0,03 kg/L
Dust-free drying time	30-50'

[info. CONSUMPTION]

About 100-200 g/m².

[info. PACKAGING]

20 kg bucket.

[info. STORAGE]

Store in an environment with temperatures not below 0 °C, away from direct sunlight or temperatures >30 °C. Always reseal partially used packaging tightly.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOSOL is a **quick-drying waterproofing and protective primer (tar-based)**, formulated with bitumen, selected solvents (solvents regenerated through activities in category R2) and special additives to facilitate application on slightly damp substrates.

Fields of application

- Primer coat on concrete structures of viaducts, bridges, foundation walls, civil and industrial building roofs.
- Apply before bonding hot or cold polymer-bitumen membranes with bituminous adhesives such as Bitoglué Base or before covering with liquid bituminous membranes.
- Used as a waterproofing paint on concrete foundation walls, as a consolidating primer for concrete, wood and metal surfaces.
- In the preparation of metal and wood surfaces.

Application

The product is ready for use and can be applied with a brush, scrub brush or roller. In case of special requirements, thinners (preferably aromatic) can be added. Equipment must be cleaned with synthetic or nitro solvents.

Warnings

Check (according to UNI 10329) that the residual moisture content of the substrate is ≤ 5% by weight (on screeds with a density of 2,000 kg/m³). Product ready for use. Do not expose directly to sunlight, temperatures above 30 °C, heat sources, open flames or other sources of ignition.

DUROKAL 16

Special 99.9% pure synthetic compound for creating statues, friezes and ornaments in general



[info. PRECAUTIONS]

Work only with clean water that is not excessively cold and clean containers. Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. FEATURES]

APPEARANCE	WHITE POWDER
Powder/water mixing ratio	1 Kg / 0,28 L
Processing time	About 10-12'
Solidification point	15-20'
Compressive strength	> 50 MPa
Flexural strength	> 8 MPa
Degree of whiteness (L)	> 95

[info. PACKAGING]

25 kg bag.

[info. STORAGE]

The product must be stored in dry places and in tightly closed containers, avoiding exposure to moisture.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

DUROKAL 16 is a powder that can be mixed with water. After brief mixing, it forms a plastic, pourable mass that can be used to make reliefs, models and reproductions. 99.9% PURE NATURAL RESIN.

Instructions for use

Pour the DUROKAL 16 powder into the specified amount of water. Mix well for about one minute, until the initially viscous mass becomes plastic and pourable (for mixing large quantities, it is advisable to use an electric/mechanical mixer).

Pour the mixture slowly to avoid excessive air bubbles. After 15-20 minutes from the start of pouring, the object can be removed from the mould. The object thus created will have a high initial temperature but will cool down quickly: it is advisable to place it in a well-ventilated area (e.g. on wooden slats). Once hardened (approximately 8 hours), the surfaces can be treated with colours or acids.

The drying cycle will be complete after 48-72 hours at a recommended temperature of approximately 40 °C.

Surface finishing

Once dry, the surfaces can be decorated using water-soluble acrylic paints, varnishes or coatings.

Advantages

- High resistance of the products.
- Very low expansion.
- Low thermal reaction peak (approximately 30 °C).
- Does not contain substances harmful to the user.
- Biodegradability of the products obtained.
- Final appearance similar to porcelain.
- Easy to handle.
- Rapid hardening without additives.
- No drying or baking required.
- High precision reproduction and definition.
- Treatment of bulk or surfaces with pigments and colours.
- Finished product can be polished with brushes.
- Tools can be washed with water.

SIRIOBETON AC

Anti-shrinkage rheoplastic mortar for pouring, compliant with UNI EN 1504-3 and 1504-6



[info. **PRECAUTIONS**]

Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. **CONSUMPTION**]

Approximately 19 kg/m² of surface area.

[info. **WATER DOSAGE**]

Plastic mix: 2.25-2.75 L of water and 25 kg of SIRIOBETON AC.
Fluid mix: 2.75-3.3 L of water and 25 kg of SIRIOBETON AC.

[info. **DIAMETRO MASSIMO INERTE**]

Approximately 2.0 mm.

[info. **PACKAGING**]

25 kg bag.

[info. **STORAGE**]

The product must be stored in dry places and in tightly closed containers, avoiding exposure to moisture.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOBETON AC is a **ready-to-use cementitious mixture which, after mixing with water, is perfectly pourable and allows for the creation of conglomerates with extremely high adhesion, durability, impermeability, exceptional mechanical resistance and no shrinkage. It is also suitable for grouting.** Application thicknesses from 5 mm to 45 mm in a single solution.

Instructions for use

Wet the contact surfaces until completely saturated, starting a few hours before casting, to saturate the porosity of the substrate. Any excess water on the surface or in surface cavities must be removed with compressed air or a sponge immediately before casting.

Mix for 3-4 minutes (or, depending on the efficiency of the mixing, for the time necessary to obtain a homogeneous mixture free of lumps) in the concrete mixer already containing the approximate amount of water needed for the mixture, but slightly less.

For thick castings, it is advisable to add 25-30% quartz or washed gravel with a grain size of 2-6 mm to the product.

Achieve the desired workability with the last addition of water. The amount of water required may vary depending on the ambient thermo-hygrometric conditions.

Pour from a corner, by hand or with a pump, even in difficult and intricate positions. A slight vibration or manual compaction will be sufficient to ensure the total compactness of the casting.

After application, as soon as setting has taken place, keep the surface of the mortar moist or in any case prevent the evaporation of the water contained: this operation is particularly important in hot, dry and windy weather. If necessary, anti-evaporation membranes can be used or wet jute sacks or rags can be applied to the surface, covered with polyethylene sheets, keeping the surface wet for a few days.

Advantages

- The self-levelling characteristics of SIRIOBETON AC make it a perfectly pourable product, allowing total filling of the most tortuous and normally inaccessible cavities, even if distant from the pouring point and with very narrow iron spacing.
- No bleeding and very strong adhesion to the substrate and to the foundation and reinforcement iron.
- Dimensional stability.
- Excellent durability against chemical attacks, freeze-thaw cycles, and resistance to greases and oils.
- Impermeability to penetration even under pressure and exceptional mechanical strength.

SIRIOBETON FA

Single-component, fibre-reinforced, structural, thixotropic anti-shrinkage mortar for vertical and overhead repairs, based on microsiliates for repairing reinforced concrete with thicknesses from 5 to 50 mm, compliant with UNI EN 1504-3.



[info. AGEING]

In dry, ventilated conditions with high evapotranspiration (after trowelling), ensure the surfaces are kept moist during curing using SIRIOPEL anti-evaporation agent or water spray.

[info. FEATURES]

APPEARANCE	POWDER
Color	Concrete grey
Aggregate (D _{max})	2,0 mm
Apparent density	1,2 kg / dm ³
Chloride ion content (≤0,05%)	0,012%

[info. CONSUMPTION]

Approximately 19 kg/m² of surface area per 1 cm of thickness.

[info. MAXIMUM INERT DIAMETER]

About 2,0 mm.

[info. PACKAGING]

25 kg sack.

[info. STORAGE]

The product can be stored for 12 months in its original, unopened packaging in a dry, protected environment at a temperature between 5 °C and 35 °C. The closed bag preserves and protects the product thanks to its double paper-polythene wrapping. Do not use the contents of torn or opened bags if you notice any clumping of the powder.

SIRIOBETON FA is a mixture produced with special hydraulic binders, selected aggregates, microsiliates, polypropylene fibres and additives that **give it a high degree of workability and adhesiveness for vertical and overhead applications, with resistance to aggressive external agents.** Compliant with UNI EN 1504-3.

Instructions for use

Remove all degraded concrete completely and thoroughly until a sound surface is obtained, free of loose parts and substances that could compromise the adhesion of SIRIOBETON FA to the substrate.

For fillings thicker than 2 cm, it is recommended to place an electro-welded mesh with spacers (at least 1 cm from the substrate) and provide a concrete cover of at least 1.5-2 cm.

Wet the contact surfaces until they are completely saturated. Excess water on the surface or in surface cavities must be removed with compressed air or sponges immediately before application.

Mix for about 3-5 minutes (to obtain a homogeneous mixture free of lumps) in the concrete mixer already containing 2/3 of the water needed for the mixture.

Achieve the desired workability by adding the remaining water. The amount of mixing water may vary depending on the ambient thermo-hygrometric conditions.

Directions for use

- Structural plastering.
- Structural reconstruction of degraded structures.
- Coating of dam bulkheads, canals, viaducts, bridges and mountain weirs.
- Formation of coatings resistant to chloride and sulphate attack.
- Protection of structures subjected to high freeze-thaw cycles.
- Wear-resistant coatings.
- Waterproofing of tanks.

Advantages

The high adhesive power of SIRIOBETON FA allows you to achieve high coating thicknesses with manual application or using plastering machines and shotcrete machines, significantly reducing the number of passes. Furthermore, by using SIRIOBETON FA, you obtain:

- Very high abrasion resistance.
- Increased resistance to freeze-thaw cycles.
- Increased electrical resistivity by more than 25 times.
- No bleeding.
- Reduction in waste (15-20 times).
- Very high resistance to chemical attack.

SIRIOBETON FIX-R

Reoplastic mortar for repairs and fixings with extremely fast hardening



[info. PRECAUTIONS]

Use according to the instructions on the technical data sheet and safety data sheet. Wash hands and equipment thoroughly with water before handling the product.

Wear full protective clothing: hydraulic binders can cause skin and eye irritation. Do not breathe dust and ventilate the area.

[info. CONSUMPTION]

Approximately 19 kg/m² of surface area per 1 cm of thickness.

[info. WATER DOSAGE]

17-18 L of water per 100 kg of SIRIOBETON FIX-R.

[info. PACKAGING]

- 25 kg bag
- 5 kg bag

[info. STORAGE]

12 months in original, unopened packaging, stored in a dry, protected environment at a temperature between +5°C and +35°C. The closed bag preserves and protects the product thanks to its double polythene-paper lining. Do not use the contents of torn or opened bags if you notice any clumping of the powder.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOBETON FIX-R is a **high-performance, ultra-fast setting cementitious mortar specifically designed for fixing to masonry substrates**, in both vertical and horizontal applications. The product is formulated with hydraulic binders, selected aggregates and specific additives. It does not contain chlorides or metallic components.

Instructions for use

- Mix the product with clean water without impurities at a ratio of 18-20% (approximately 4.5-5 litres of water for each 25 kg bag). Mix by hand with a trowel until the mixture is smooth and lump-free, then apply immediately. Given the rapid setting characteristics, it is advisable to use a limited quantity of product.
- During the processing/setting/hardening phases, the ambient and substrate temperature must be between +5 °C and +35 °C.
- During the curing phase and until maturity, protect from frost, direct sunlight and washout.
- For temperatures above 30 °C, we recommend using cold water. For temperatures below 8 °C, use lukewarm water.
- When filling vertical surfaces, apply in several layers at 5-minute intervals, checking that the underlying layer has set.

Preparation of the substrate

Check the consistency of the substrate on which the restoration will be carried out. The substrate must be consistent, not subject to hygrometric shrinkage, deformation of any kind and free of foreign materials (dust, oils, efflorescence, etc.). It must also have a tear resistance of at least 1.5 N/mm².

For all substrates (especially absorbent and porous ones), it is recommended to saturate them with water beforehand and remove excess water in order to prevent water being drawn from the product. Remove any damaged parts.

The substrate must be roughened (to a roughness of approximately 3-4 mm for applications from 10 to 30 mm in a single coat) by chiselling, using demolition tools or pressure hydro-scarification.

Directions for use

- Wherever rapid application with a significant reduction in execution times is desired.
- As a patch for deteriorated or missing concrete.
- For rapid repair of degraded masonry.
- For the rapid fixing of metal elements in concrete and masonry.
- For the rapid installation of manhole covers, anchors, pipes, false frames and electrical boxes.

Advantages

- High short-term mechanical strength.
- Ultra-fast setting.
- Thixotropic.
- Concrete and masonry substrates.

SIRIOBETON FLEX-M

Two-component cementitious premix with elastomeric and waterproofing properties



[info. PRECAUTIONS]

Work only with clean water that is not excessively cold and clean containers. Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. CONSUMPTION]

Approximately 4 kg/m² of surface area per 3 mm of thickness.

[info. CLASSIFICATION]

GP CS IV W2 in accordance with UNI EN 998-1:2010.

Meets the requirements of the following standards:

- UNI EN 1504-9 (products and systems for the protection and repair of concrete structures)
- UNI EN 1504-2 coating (C) according to PI, MC and IR principles (Concrete surface protection systems).

[info. PACKAGING]

25 kg bag of powder (component A) plus 8.35 kg canister of liquid (component B).

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOBETON FLEX-M is a **two-component, microfibre-reinforced, anti-carbonation cementitious waterproofing mortar in powder form, specifically designed for waterproofing balconies, terraces, bathrooms and swimming pools**. It is formulated with a mixture of high-strength cements with synthetic rubber latex additives, free of plasticisers, with extremely high elastic properties.

It is also suitable for low-thickness protection and high elastic modulus of concrete elements on façades (e.g. pillars, parapets, front panels, planters and gutters built on site, etc.), plaster and cement screeds.

Instructions for use

Mix all of component B (8.35 kg liquid container) with component A (25 kg powder bag), using only buckets and tools that are free of any form of impurity. Mix with a mixer or drill equipped with a low-speed whisk until a homogeneous, lump-free mixture is obtained. The mortar obtained must be applied immediately.

The substrate must have a tensile strength of at least 0.25 N/mm² and must be dry, consistent, sufficiently flat and free of foreign materials (dust, oil, soot, algae, efflorescence, release agents, etc.).

Remove any films of release agents. Crumbly surfaces or surfaces prone to chalking must be consolidated with SIRIOCRYL fixative or removed and restored with a suitable product.

Directions for use

Apply a first coat of SIRIOBETON FLEX-M with a smooth or notched metal trowel, apply suitable SIRIORETE fibreglass mesh and, once dry (approximately 4-5 hours), apply a second coat of product with a smooth metal trowel. Use the appropriate accessories (waterproofing tape, internal corner tape, external corner tape) at edges and corners. Respect any thermal joints and structural joints present in the substrate. Wait for the product to dry (approximately 5 days) before laying the ceramic covering (in good weather and temperature conditions, on a dry substrate, this period can be reduced to 24 hours).

When waterproofing swimming pools, the applied product must never be left exposed; cover with ceramic products.

In hot weather, it is advisable not to expose the material (powder and liquid) to the sun before use. After application, in particularly dry, hot or windy conditions, it is advisable to protect the surface from rapid evaporation with sheets.

SIRIOBETON IDR NHL

Mortar for restoration plaster for the repair of masonry subject to rising damp due to capillary action



[info. **PRECAUTIONS**]

Work only with clean water that is not excessively cold and clean containers. Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. **CONSUMPTION**]

Approximately 12 kg/m² of surface area per 1 cm of thickness.

[info. **WATER DOSAGE**]

Approximately 5.25 L per 25 kg bag (21%).

[info. **CLASSIFICATION**]

According to UNI EN 998-1:2010 standard, mortar for restoration plaster (R).

[info. **PACKAGING**]

25 kg bag.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOBETON IDR NHL is a **mortar for renovation plastering, applied manually, for the restoration of masonry subject to rising damp due to capillary action**. It is a macroporous premixed product based on natural hydraulic lime NHL 3.5, pozzolanic binders, selected and dried spheroidal silica sands and the addition of special aerating additives.

SIRIOBETON IDR NHL is breathable, anti-condensation and water-repellent. Suitable for old and new masonry made of stone, brick, tuff and mixed materials.

Instructions for use

During processing and drying, the ambient and substrate temperature must be between +5 °C and +35 °C. During drying and curing, protect from excessive frost and drought, as well as from washout and extreme weather events.

SIRIOBETON IDR NHL is mixed and applied with a trowel: apply a thickness of at least 2 cm. If it is necessary to apply greater thicknesses, wait for the first layer to set and then apply a second layer. Do not float or smooth the surface so as not to occlude the necessary porosity. Allow the plaster to cure completely (minimum 21 days) before applying any finish/paint. Use only breathable paints such as lime paint, siloxane paint or acrylic-siloxane paint. Do not use acrylic, quartz or elastomeric paints.

Preparazione del supporto

The substrate must be dry, solid, free of foreign materials (dust, oil, soot, algae, efflorescence, release agents, etc.) and must have a tensile strength of at least 0.25 N/mm². Remove any films of release agents; crumbly surfaces or those prone to chalking must be consolidated with a fixative or removed and restored.

The masonry to be restored must be exposed, removing all traces of the old plaster, to a height of at least +50 cm above the maximum height reached by the damp (never apply at heights below 1 m). In the most compromised cases, wash the substrate thoroughly with drinking water to remove any salts present. If the consistency of the masonry allows it, clean with a pressure washer. Wait for the excess water to evaporate or remove it with rags or a jet of air. Only when the substrate is dry, begin applying SIRIOBETON IDR NHL in a 'leopard spot' pattern to create a first bonding layer. Allow to dry superficially, then begin applying SIRIOBETON IDR NHL thickly (maximum 2 cm for each single coat).

SIRIOBETON PR

Thixotropic, air-expanding, fibre-reinforced, polymer-modified rapid-setting mortar for the restoration of reinforced concrete



[info. **PRECAUTIONS**]

Work only with clean water that is not excessively cold and clean containers. Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. **CONSUMPTION**]

Approximately 18 kg/m² of surface area per 1 cm of thickness.

[info. **WATER DOSAGE**]

Approximately 4 L per 25 kg bag (16%).

[info. **CLASSIFICATION**]

Rapid-setting cementitious mortar (PCC), class R3 according to UNI EN 1504-3 standards.

[info. **PACKAGING**]

25 kg bag.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOBETON PR is a mortar **used for medium-low thickness restoration and reprofiling of reinforced concrete, in horizontal and vertical applications, indoors and outdoors, even without specific adhesion-promoting primers.**

Suitable for rebuilding the concrete cover of degraded structural elements (pillars, beams, slabs, partitions, etc.) and for restoring and repairing concrete elements in residential buildings such as cornices, front panels, balconies and terraces, which may also be subject to oxidation of the reinforcing bars.

Suitable for industrial applications such as precast concrete elements (e.g. manholes, pipes, concrete Imhoff tanks), levelling of surface defects in concrete castings (e.g. gravel pockets, spacer holes, casting joints, etc.), filling of rigid joints, restoration of surfaces subject to heavy abrasion (channels, industrial floors, ramps, etc.). etc.), filling rigid joints, restoring surfaces subject to heavy abrasion (channels, industrial floors, ramps, etc.).

Instructions for use

During processing and setting/hardening, the ambient and substrate temperature must be between +5°C and +35°C. During curing and until complete maturation, protect from frost, excessive ventilation, direct sunlight, as well as washouts and potentially damaging weather events.

In the event of temperatures above 30°C, it is advisable to use cold water and apply the product immediately after mixing, protecting the surfaces in order to prevent drying.

In the event of temperatures below 8°C, it is advisable to use lukewarm water in order not to slow down the development of mechanical resistance during short curing times. Mix with 16% water by weight of the powder (approximately 4 litres of water for each 25 kg bag of SIRIOBETON PR); use only clean water free of any impurities. Mix with a vertical axis mixer, concrete mixer or, for small quantities, with a low speed drill until a homogeneous, lump-free mixture is obtained.

Preparation of the substrate

The substrate must be solid, not subject to hygrometric shrinkage or deformation of any kind, and free of foreign materials (dust, oil, soot, algae, efflorescence, release agents, etc.). It must also have a tear resistance of at least 1.5 N/mm². For all substrates, with particular regard to porous and absorbent ones, thorough and preventive surface saturation is recommended, followed by drying of excess water, in order to avoid water being drawn from the fresh product. Completely remove only the damaged, loose or detaching parts from the surfaces of the structures until a stable, consistent and clean substrate is obtained. The substrate must also be sufficiently rough to promote product adhesion (roughness of approximately 3-4 mm for applications from 10 to 30 mm in a single coat). Depending on the case, this operation can be carried out manually (by chiselling), mechanically (with the aid of demolition tools) or by pressure hydro-scarification.

SIRIOBETON RV

Fibre-reinforced non-shrink mortar for vertical structural repairs



[info. PRECAUTIONS]

Work only with clean water that is not excessively cold and clean containers. Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. CONSUMPTION]

Approximately 19 kg/m² of surface area per 1 cm of thickness.

[info. WATER DOSAGE]

Approximately 17 litres per 100 kg of product.

[info. MAXIMUM INERT DIAMETER]

About 1,5 mm.

[info. PACKAGING]

25 kg bag.

[info. STORAGE]

12 months in original, unopened packaging, stored in a dry, protected environment at a temperature between +5°C and +35°C.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOBETON RV is a ready-to-use cementitious mixture with polymer additives which, after mixing with water, can be easily applied with a trowel and standard plastering tools; **The layers of the applied and hardened material will have extremely high adhesion, durability, impermeability, exceptional mechanical resistance and will be free from shrinkage.** The product does not contain any metal components.

Fields of application

- Structural plaster in general.
- Structural restoration of degraded surfaces.
- On vertical surfaces and ceilings in general, or wherever the following requirements are needed: easy spreadability and application, strong and immediate adhesion to the substrate, elimination of waste, dimensional stability and very high physical-mechanical resistance.

Instructions for use

- Remove all degraded concrete completely and thoroughly until a sound surface is obtained, free of loose parts and substances that could compromise the adhesion of SIRIOBETON RV to the substrate.
- Prepare suitable reinforcement bars fixed to the substrate at a suitable distance.
- Wet the contact surfaces until completely saturated, starting a few hours before casting, to saturate the porosity of the substrate.
- Excess water on the surface or in surface cavities must be removed with compressed air or sponges immediately before application.
- Average water required for the mixture: approximately 17 L per 100 kg of Siriobeton RV.
- Mix for 3-5 minutes in a concrete mixer already containing 2/3 of the water required for the mixture.
- Achieve the desired workability with a final addition of water. The total amount of water may vary depending on the ambient thermo-hygrometric conditions.
- After application, as soon as setting has taken place, keep the surface of the mortar moist and in any case prevent the water it contains from evaporating; this is particularly important in hot, dry and windy weather. Optimal results are obtained by keeping the surface wet for 3-5 days.
- Thick vertical layers or ceilings must be applied in several stages to prevent the weight of the material from 'tearing' it while it is still plastic, resulting in cracks.

Advantages

- Its thixotropic properties ensure excellent adhesion to the substrate and easy application on vertical surfaces, undersides of beams, corbels and ceilings.
- Can be applied using standard manual or mechanical tools normally used for plastering.
- No bleeding.
- Very strong adhesion to the substrate and exceptional mechanical resistance.
- Maximum durability against chemical attacks, impermeability to penetration even under pressure.

Synthetic fibres for concrete and mortar



[info. TYPES]

- SIRIOFIBRE 15/06 - Length 6 mm for mortars and plasters
- SIRIOFIBRE 15/12 - Length 12 mm for screeds and flooring
- SIRIOFIBRE 15/18 - Length 18 mm for hot mixes

[info. DOSAGE]

- 140 g packaging for each 50 kg bag of cement.
- 800 g packaging for each m³ of mortar or concrete.
- Different quantities can be requested to package mixtures with specific characteristics.

[info. PACKAGING]

- SIRIOFIBRE 15/06: Box 50 x 140 g // Box 30 x 800 g
- SIRIOFIBRE 15/12: Box 30 x 800 g
- SIRIOFIBRE 15/18: Box 30 x 800 g

[info. STORAGE]

The product should be stored in a cool, dry place in its original packaging.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOFIBRE reinforces mortar and concrete by counteracting shrinkage stresses, distributing the fibres evenly throughout the mass of the manufactured products.

SIRIOFIBRE is made from a white polypropylene-based polymer blend, with additives that make it resistant to UV rays and the alkalis present in cement. The special structure of the fibres (obtained from recycled material and therefore compliant with European directives to protect the planet) ensures rapid and uniform dispersion within the mixtures to which they are added.

SIRIOFIBRE can also be easily mixed into anhydrous products and is compatible with any concrete additive produced by Proind.

Fields of application

Plaster; restoration and consolidation; industrial and civil flooring; heating and cooling floors; vases, wells, fences, pipes, road barriers; exposed concrete; joints; thin and infill slabs; screeds for flooring; prefabricated elements; reinforced and non-reinforced concrete; premixed mortar packaging.

Instructions for use

SIRIOFIBRE is added to the concrete mixer or truck mixer directly during the mortar or concrete production phase, taking care to extend the mixing time by at least 5 minutes.

Advantages

- Ease of use and increased plasticity and workability of the mixture.
- Uniform distribution of plastic and hydraulic shrinkage stresses, with a consequent reduction in cracking.
- Increased resistance to freeze-thaw cycles, carbonation, abrasion and impact.
- Elimination of macro-cracks, with a significant increase in the impermeability of the cement mixture.
- Replacement of non-structural metal meshes.
- Reduction in curing times in formwork, resulting in increased productivity.
- Greater workability and cohesiveness of mixtures.

SIRIOFIBRE STX

High-tenacity synthetic fibres for concrete and mortar



[info. TYPES]

- SIRIOFIBRE STX 30 - Length 30 mm for small prefabricated elements and mortars.
- SIRIOFIBRE STX 48 - Length 48 mm for screeds and flooring.

[info. DOSAGE]

Depending on specific applications and desired performance.

- Floors and decks: from 2.5 to 6.5 kg/m³
- Prefabrication: 4.5 kg/m³ replacing electro-welded mesh
- Shotcrete: from 4.5 to 13.5 kg/m³
- Reinforcement joints: 4.5 kg/m³

[info. PACKAGING]

- SIRIOFIBRE STX 30 mm: Box of 5 x 1000 g
- SIRIOFIBRE STX 48 mm: Box of 5 x 1000 g

[info. STORAGE]

The product should be stored in a cool, dry place in its original packaging.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIOFIBRE STX fibres are made from a special polymer blend based on white polypropylene, with additives that make them stable to UV rays and resistant to the alkalis present in cement. Their special structure ensures rapid and uniform dispersion within the mixtures, even during dry mixing. Unlike common synthetic monofilament or fibrillated fibres used in concrete and mortar to control plastic shrinkage, SIRIOFIBRE STX fibres give concrete a real boost in mechanical performance, improving residual strength after cracking, hardness and fatigue resistance.

Fields of application

Thin prefabricated slabs; fibre-reinforced plaster; industrial flooring; vases, manholes, pipes, fences, road barriers; joints; quick-drying screeds; non-structural prefabricated elements; premixed mortars.

Instructions for use

SIRIOFIBRE STX is added directly to the concrete mixer during the mortar or concrete production phase, taking care to monitor the mixing times and, if necessary, extend them to ensure optimal dispersion.

In most cases, the use of SIRIOFIBRE STX makes it possible to replace electro-welded mesh and is also a valid alternative to steel fibres, while ensuring high performance and competitiveness. Any reduction in the workability of the concrete can be easily compensated for with minimal adjustments: a slight increase in the amount of superplasticiser is sufficient to restore the original workability.

Advantages

- Uniform distribution of plastic and hydraulic shrinkage stresses, resulting in a reduction in cracking.
- Increased resistance to freeze-thaw cycles, abrasion and impact.
- Significant reduction in macro-cracks, with a significant increase in the impermeability of the cement mixture.
- Replacement of non-structural metal meshes.
- Increased ductility indices according to ASTM C 1018.

Compatibility

SIRIOFIBRE STX are fully compatible with all concrete additives, both from Proind and other manufacturers. Their function is exclusively mechanical and does not interfere in any way with the hydration processes of the cement paste.

Chemical cleaner for removing concrete and mortar deposits



[info. PRECAUTIONS]

Irritating to eyes and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Keep out of reach of children.

Consult the toxicological data sheet.

Always wear gloves and goggles when handling. In the event of broken containers or spills, absorb and take to a suitable place for disposal.

In case of contact with eyes and skin, rinse thoroughly with water and consult a doctor.

[info. BIODEGRADABILITY]

90%.

[info. PACKAGING]

- 1200 kg cistern
- 200 kg drum
- 25 kg container
- 10 kg container

[info. STORAGE]

The product must be stored in its original packaging in a dry place away from heat sources.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

SIRIONET is a special **chemical cleaner that removes concrete encrustations from cement mixers, concrete mixers, formwork, metal equipment and machinery in general**. SIRIONET is also effective on ceramics, stoneware and terracotta tiles encrusted with excess mortar due to their installation.

Instructions for use

SIRIONET can be used undiluted or diluted in water. For light deposits of fresh cement, dilute 1 part SIRIONET with 6 parts water. If the deposits are dry cement, it is advisable to scrape off the excess mortar, then treat with undiluted SIRIONET. Rinse with water (lukewarm water is recommended).

Fields of application

Removes lime: splashes of mortar or cement are removed from lorries, carpentry timber, tubs, buckets, trowels and all tools used in construction. It also removes rust and corrosion and helps prevent deterioration. Quickly removes encrustations and is harmless to most paints and finishes, especially when diluted in water.

SIRIONET restores the natural colour of surfaces, making them look like new and saving time because its cleaning action eliminates the need for mechanical cleaning treatments.

Advantages

- Reduces cleaning costs.
- Can be diluted in water up to 6 parts.
- Does not deteriorate in storage.

Important

Always remember to add SIRIONET to water and not vice versa. The mixture of water and SIRIONET generates heat. It does not corrode rubber or most types of paint. It contains a special corrosion inhibitor that acts on metals in general.

Migratory corrosion inhibitor for concrete



[info. **PRECAUTIONS**]

Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. **TYPICAL PROPERTIES**]

- Appearance: dark brown liquid.
- pH: 9,5-11,5
- Non-volatile part: 44-55%
- Density: 1,14-1,23 Kg/L

[info. **DOSAGE**]

Dose 0.6 L/m³ of mixture (mortar or concrete) regardless of chloride content. It can be added in the concrete mixing plant with the addition of water, on site in a concrete mixer or when mixing mortar or concrete.

[info. **PACKAGING**]

- 208 L drum
- 19 L bucket

[info. **STORAGE**]

Store at room temperature between 0 °C and 55 °C and away from direct sunlight. Shelf life: 24 months in original, tightly closed packaging.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

MCI® 2005 is a water-based organic liquid corrosion inhibitor additive to be added to concrete and mortar to **protect reinforcing steel**. When added to MCI® 2005 concrete, it provides retardation effects while forming a monomolecular protective layer on the embedded metals.

In new constructions, it helps to raise the critical chloride threshold and reduce corrosion rates once the corrosion process has begun. Se utilizzato nella produzione o nell'aggiunta alle malte MCI® 2005 non solo protegge l'armatura dove viene applicato ma è in grado di migrare nelle parti adiacenti del calcestruzzo, proteggendo le strutture.

MCI® 2005 is an organic corrosion inhibitor, considered ambidrotic (mixed), as it protects both anodic and cathodic areas within a corrosion cell.

MCI® 2005 contains a mixture of amino salts of carboxylic acids that form a protective layer on the iron present, delaying the onset of corrosion and reducing existing corrosion rates.

Fields of application

MCI® 2005 It is recommended as an additive for reinforced concrete, precast, prestressed and post-tensioned structures, especially in marine environments that are particularly aggressive in terms of steel corrosion and where there is carbonation, the presence of chlorides and atmospheric attack.

- Bridges, viaducts, overpasses, car parks, exposed concrete, etc., wherever conditions of particular corrosive aggression exist.
- Post-tensioned concrete structures in the sea.
- Product certified to NSF Standard 61 for use with drinking water.

Advantages

- Lower toxicity and environmental impact compared to traditional calcium nitrite mixtures.
- Single product with low dosage rate independent of chloride content.
- Minimal effects on concrete properties (workability, strength development, air entrainment).
- Ability to migrate through porous substrates (concrete, masonry, limestone, etc.) by capillary action, vapour diffusion and ionic attraction.

Migratory corrosion inhibitor for impregnation and penetration on existing concrete structures



[info. **PRECAUTIONS**]

Use the product carefully following the instructions in the technical data sheet and safety data sheet. Always wear suitable protective clothing. Consult the toxicological data sheet before use.

[info. **CONSUMPTION**]

Approximately 1 L / 6 m² of surface area.

[info. **PACKAGING**]

- 1040 L tank
- 210 L drum
- 19 L bucket
- 5 L container

[info. **STORAGE**]

Shelf life: 24 months in original, tightly closed packaging.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

MCI® 2020 is a corrosion inhibitor that, when applied to concrete surfaces, migrates through the porosity of the conglomerate and fixes the active parts of these molecules to the reinforcing bars inside the concrete structure.

The exceptional feature of this product is that, if MCI® 2020 does not come into direct contact with the metal, it will migrate a considerable distance through the porosity of the concrete to find and protect the reinforcing bars.

Tests carried out with the SHRP (STRATEGIC HIGHWAY RESEARCH PROGRAM*) programme indicate a significant reduction in voltage and corrosion current even in concrete containing high levels of CHLORIDES. At these chloride levels, conventional NITRITE-based corrosion inhibitors tend to accelerate corrosion rather than inhibit it.

Furthermore, unlike nitrites, MCI® 2020, is non-toxic: acute oral toxicity MCI® 2020 = 2.250 mg/Kg equal to that of table salt (the acute oral toxicity of nitrites is almost 1,000 times higher = 3 mg/kg). MCI® 2020 is water-based.

Instructions for use

MCI® 2020 is applied by spraying or rolling onto concrete surfaces.

The migration inhibitor is capable of preventing further corrosion even in iron already affected by chlorides. It can be applied at all temperatures above zero. For concrete containing high concentrations of chlorides, two applications may be necessary for maximum effectiveness.

Surfaces must be cleaned of dirt, oil and grease before application. MCI® 2020 does not penetrate film-forming sealants, asphalt, paint, etc.; in such cases, contact our Technical Service to check the possibilities and recommendations for use.

Traffic can resume a few minutes after application. The spray does not damage paintwork or glass, and the product can be easily removed by washing it off with water.

Before applying a coating or other concrete to a surface treated with MCI® 2020, it should be noted that even a thin film of inhibitor can adversely affect adhesion; this can be avoided by rinsing the surface with water or removing it by sandblasting.

A simple rinse removes the thin layer of inhibitor, leaving a clean surface on which easy and effective adhesion is possible.

*NATIONAL RESEARCH COUNCIL (U.S.A.) Patented.

Corrosion inhibitor for metal surfaces



[info. **PRECAUTIONS**]

Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. **TYPICAL PROPERTIES**]

- Appearance: liquid, slightly amber
- Film type: oily
- Boiling point: 77°C
- Removal methods: alkaline cleaners and petroleum solvents
- Density: 0.83-0.84 kg/L

[info. **DOSAGE**]

1 L per 40 m² of surface area.

[info. **PACKAGING**]

19, 10 and 5 litre buckets

[info. **STORAGE**]

The product is sensitive to frost, so it is advisable to store it at temperatures above +5°C. VCI® 325 stored for 1 or 2 months may develop a surface oil film; in this case, simply stir the product to ensure that the surface liquid is reabsorbed.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

VCI® 325 is a ready-to-use compound that **provides high protection against corrosion on metal surfaces**.

The product can be used both preventively, i.e. on new metal, and during removal and protection from corrosion on metal surfaces.

Advantages

VCI® 325 guarantees the protection of metal surfaces through a dual action.

Once applied to the metal surface, it develops a mechanical barrier that prevents atmospheric agents from attacking the metal through oxidation. At the same time, the molecules of the VCI® 325 protective agent self-condense on the surface, producing other molecules which, in the form of vapour, penetrate the metal mass and thus provide additional corrosion protection.

The protective layer regenerates itself thanks to the continuous emission and self-condensation of vapours.

Equipment

Our Technical Department is at your disposal to assess the most suitable equipment for your needs.

These new application systems offer practical, modern and economical solutions for the protection of metal parts and products.

Metal corrosion costs industry millions of euros every year, with particularly damaging effects. Corrosion prevention with VCI® 325 is the ideal solution to avoid or mitigate the problem.

CHAPIN PUMP

Manual compression pump



[info. PUMP DIMENSIONS]

20,57 x 20,57 x 57,91 cm (Width x Length x Height).

[info. PACKAGING DIMENSIONS]

21,00 x 21,00 x 58,50 cm (Width x Length x Height).

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

[info. TECHNICAL SPECIFICATIONS]

Tank capacity	14 L
Mouth opening	10 cm
Tank material	Tri-Poxy steel
Pump type	Piston
Pipe length	91,44 cm
Pipe type	Reinforced rubber
Wand length extension	45,72 cm
Wand extension material	Brass
Seal material	Resistant to chemical agents
Nozzle	Brass fan
Filter	No
Handle	Metal alloy
Pressure relief valve	No
Flow rate (spray)	1,5 - 1,9 L/min.
Working pressure	2,75 - 4,13 Bar
Weight	3,31 Kg

CHAPIN PUMP: **professional manual compression pump** with 11.4 L Tri-Poxy steel tank, rust and corrosion resistant, with wide funnel opening for easy filling and cleaning.

It is equipped with a high-quality brass shut-off valve and a 91 cm reinforced hose for greater durability, as well as a brass wand, nozzle and shut-off valve with lock function. Capacity: 11.4 L - Operating pressure: 3.5 bar.

Fields of application

Manual compression pump suitable for use in the construction and maintenance sectors.

Packaging

Manual compression pump, supplied complete with brass spray gun, 45 cm brass extension fitted with spray nozzle and 91 cm rubber hose.

Pump with trolley and steel tank



[info. **PUMP DIMENSIONS**]

20,57 x 20,57 x 57,91 cm (Width x Length x Height).

[info. **PACKAGING DIMENSIONS**]

21,00 x 21,00 x 58,50 cm (Width x Length x Height).

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

[info. **TECHNICAL SPECIFICATIONS**]

Tank capacity	25 L
Calibrated safety valve	Vitton
Length of oil-resistant rubber hose	5 m
Gun body	Polypropylene + fibreglass
Type of spear	Plastic, lightweight and easy to handle
Entry attack	1/4" bayonet
Spray nozzle	Plastic 80°
Internal seals	Vitton
Spring and internal balls	Stainless steel

POMPA STAR: **wheeled external charge sprayer with 25 L painted steel tank**, equipped with anti-reflux funnel and level indicator. Operates autonomously without the need for continuous connection to the compressed air network.

Fields of application

Nebuliser for degreasing oils and liquids in general, **not to be used with flammable or corrosive liquids**.

Packaging

The STAR pump is supplied complete with a safety valve calibrated to 6 atm, pressure gauge, 5 m oil-resistant rubber hose, spray gun with filter, 75 cm extension and spray nozzle.

PLASTIC INJECTORS

Plastic injectors, available in various lengths, to facilitate concrete curing treatments



[info. **PRECAUTIONS**]

Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND srl.

PLASTIC INJECTORS for low pressure injections (from 1 to 60 bars) for fast and safe injection of various liquid formulations into masonry. Available with watertight valve with steel ball.

Fields of application

Our injection diffusers, available in various lengths and with a watertight valve equipped with a steel ball, improve and facilitate curative treatments on wood and concrete. They are particularly effective against capillary water rise in masonry and can be supplied complete with caps.

Advantages

- **EFFICIENCY**, save time on your construction sites with products designed to the highest quality standards.
- **PERFORMANCE**, the injectors guarantee maximum precision and high performance, with detailed technical instructions always available from your local representative or directly from PROIND srl.
- **SUSTAINABILITY**, with Proind, you choose efficient and environmentally friendly products, contributing together to a safer and more responsible future.

ESTRALL 40/SS

Graphite lubricant for light alloy extrusion



[info. **PRECAUTIONS**]

ECOFINISH PLUS is a reverse emulsion form release agent, formulated with special synthetic oils and biodegradable additives of plant origin, free from toxic or harmful substances for operators and the environment.

[info. **FEATURES**]

- Consistency: solid
- Colour: bright black
- Dropping point: 72°C

[info. **PACKAGING**]

- 500 g loaves in 25 kg boxes
- 50 pieces per box

[info. **STORAGE**]

The product can be stored for a long time in its original packaging without any changes.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

ESTRALL 40/ES is a special **lubricant designed for cold extrusion of aluminium.**

During the process, it ensures high performance and superior quality results, in particular:

- Improved mechanical properties thanks to cold work hardening.
- Excellent control of dimensional tolerances, with a reduction in finishing operations.
- Surfaces with a high level of finish, in which the lubricant plays a decisive role.
- Absence of surface oxides.
- Increased process productivity.

ESTRALL 40/ES compound is formulated with special waxes and micronised graphite, which give it high lubricating and adhesive properties. At room temperature, it is solid and is supplied in 500 g blocks.

Fields of application

ESTRALL 40/ES is used in the extrusion and wire drawing industry..

Performance and properties

- Metal forming with excellent surface finish.
- Reduced consumption.
- Anti-corrosive properties.
- Particle size (DIN 4188): max 2% > 0.04 mm.
- Particle size (ASTM): max 2% > 325 mesh.

Surface setting retarder for washed effect on flat surfaces



[info. **PRECAUTIONS**]

- Avoid freezing.
- Shake well before use.
- Use according to the instructions on the technical data sheet and safety data sheet. Wash equipment with water. Wear protective eyewear and gloves when using the product.

[info. **CONSUMPTION**]

Approximately 0.3 L/m² of surface area.

[info. **PACKAGING**]

- 1000 kg tank
- 200 kg drum
- 20 kg tank

[info. **STORAGE**]

The product can be stored for approximately 18 months in its original packaging, without alteration and closed, in environments with maximum temperatures of approximately 40 °C.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

EXP 50 is a **water-based surface deactivator, free from organic solvents, which acts as a surface deactivator for cement-based products on horizontal surfaces.**

EXP 50 has been formulated for positive applications: it is applied to the surface of fresh concrete before the cement paste sets, deactivating the hardening process and leaving the gravel exposed. Particularly suitable for small, medium and large structures.

Fields of application

EXP 50 can be used for all applications where a positive exposed aggregate concrete effect is desired and is recommended for:

- Paving and urban or private traffic areas (pedestrian areas, squares, parking areas, pavements, external stairways, private or communal outdoor paving, garage ramps, etc.).
- Production of elements for gardening and street furniture with exposed aggregates.
- Architectural concrete.

Instructions for use and consumption

EXP 50 must be thoroughly mixed before use. We recommend applying it with a pressure pump (such as a CHAPIN pump) on fresh concrete, taking care to cover the surface to be treated evenly with a pressure of approximately 2-4 bar.

The concrete surface must also be well levelled and free of bubbles and bleeding. Afterwards, the surface treated with EXP 50 is washed once the concrete has hardened, usually one day after application, using a pressure washer. It is also recommended to wash the equipment used for application with water.

Consumption is approximately 0.3 L/m² of surface area with a depth of approximately 5 mm of delay. At high temperatures, it is recommended to apply 0.3 L/m² and intervene more quickly (6-8 hours). It is recommended to carry out preliminary tests.

Equipment

For quick and extremely economical application of EXP 50, we offer the CHAPIN manual pump. Our Technical Department is available to help you choose the equipment best suited to your needs.

Transparent polyaddition silicone elastomer



[info. PRECAUTIONS]

Use according to the instructions on the technical and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet in accordance with EU Regulation 2015/830.

[info. FEATURES]

- Consistency: solid
- Colour: bright black
- Dropping point: 72°C

[info. PACKAGING]

1 litre pack.

[info. STORAGE]

The product can be stored for a long time in its original packaging without any changes.

[info. TECHNICAL SERVICE]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

GEMINI GEL is a **transparent, two-component polyaddition silicone elastomer** that vulcanises at room temperature without shrinkage (linear shrinkage close to 0%). Its low viscosity allows it to completely cover joints and, once correctly dosed and **poured into a watertight container, it solidifies, making the joint resistant even to prolonged immersion.**

GEMINI GEL is a self-levelling paste that guarantees rapid application; its low mechanical resistance also allows easy re-accessibility of the intervention.

Being a polyaddition silicone, it may be subject to inhibition phenomena. The following materials are incompatible: amines, metal salts, sulphides and plasticine. To prevent any problems, we recommend carrying out a small preliminary compatibility test on the material to be duplicated.

GEMINI GEL is the ultimate solution for creating joints when, by choice or necessity, you are forced to work in extreme humidity conditions.

Fields of application

- Telephony.
- Intercom system.
- Outdoor lighting systems.

Instructions for use

Add component 'A' to component 'B' in equal parts, mix for about 1 minute and pour into the junction box.

Advantages

- Water resistance.
- Transparency.
- Speed of application.
- Non-toxicity.



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