

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.