

Idrosilex Pronto

Osmotic cementitious mortar suitable for contact with drinking water, for waterproofing masonry and concrete structures



WHERE TO USE

- Repairing underground masonry subject to water and moisture seepage in situations with negative pressure up to 1 atmosphere.
- Waterproofing basins, reservoirs, concrete or masonry tanks containing drinking water.
- Waterproofing concrete or masonry tanks containing sewage water.
- Waterproofing concrete or masonry tanks containing sewage or potable water.
- As further smoothing and waterproofing compound of underground walls before laying the bituminous membrane.

Some application examples

Waterproofing:

- drinking water reservoirs;
- interior and exterior cellar walls;
- damp areas;
- swimming pools;
- lift-rooms;
- underground passages;

- foundation walls;
- irrigation canals.

TECHNICAL CHARACTERISTICS

Idrosilex Pronto is a pre-blended powder, composed of a cement-based compound, selected graded aggregates, and special synthetic resins according to a formula developed in the MAPEI research laboratories.

When mixed with water, **Idrosilex Pronto** becomes a fluid mortar that can be applied by trowel or brush with excellent adhesion to the substrate for complete waterproofing, even in the presence of slight negative pressure.

RECOMMENDATIONS

- Do not use **Idrosilex Pronto** for solving internal condensation problems (use dehumidifying renders, improve ventilation to the area or provide adequate insulation).
- Do not use on gypsum plaster, plasterboard, painted walls, plywood, chipboard, asbestos cement.
- Do not mix **Idrosilex Pronto** with additives, cement or aggregates.
- Do not use on flexible or unstable surfaces.

Idrosilex Pronto



Grey Idrosilex Pronto mixed with water



Application of Idrosilex Pronto by spray gun in hydroelectric canal

- In no case should **Idrosilex Pronto** be applied to a substrate that shows signs of standing water on the surface.
- Do not mix **Idrosilex Pronto** with more water than is specified.
- Do not use the product if the packing is damaged.

APPLICATION PROCEDURE

Preparing the substrate

The surface to be waterproofed must be perfectly clean and sound. Remove crumbly or loose parts, dust, cement laitance, form release agents, varnishes and paint by mechanical brushing, sanding or high water pressure.

Renders must be perfectly anchored to the substrate. Seal cracks in the substrate and repair damaged parts with products from the **Mapegrout** line. Completely soak the substrate with water.

Wait for the evaporation of the excess water. If necessary, in order to accelerate the operation, use a sponge or compressed air.

Preparing the mortar

Pour into a clean bucket the amount of water needed for the required type of application (see table below).

Slowly mix in the **Idrosilex Pronto** with a low speed mechanical mixer.

Mix thoroughly for some minutes, taking care to blend in all the unmixed powder deposited on the sides and bottom of the bucket, until the mortar is completely blended (free from lumps).

Leave the mortar to stand for approximately 10 minutes, remix and apply.

Applying the mortar

Apply **Idrosilex Pronto** with a brush, trowel or spray.

| APPLICATION METHOD | LITRES OF WATER PER 25 KG BAG |
|--------------------|-------------------------------|
| by trowel | 5-5.5 |
| by brush | 6.0-6.5 |
| spraying | 6.25 |

TAB. 1

Application by brush requires 2-3 coats. Make sure the previous coat is sufficiently dry before applying the next (generally 5-6 hours depending on the temperature and the absorption of the substrate). In order to have perfect adhesion between the coats, it is recommended not to exceed 24 hours.

To achieve proper application, particular care to cover corners and coves is required.

When application is by trowel, it is recommended to treat the substrate with **Idrosilex Pronto** using a brush for the first coat. When application is by spraying, a normal rendering machine (including rendering machine with bowl-type spray gun) can be used making sure to mix the product beforehand. After having soaked the substrate, apply the mix by spray in two layers. Apply the second one when the first has partially hardened. In all cases the final thickness of **Idrosilex Pronto** must be approximately 2-3 mm.

The properties of the hardened layer of **Idrosilex Pronto** are such that it can be used only for rigid waterproofing.

Idrosilex Pronto cannot be exposed to any type of traffic. When applied onto floors or surfaces subject to accidental falling of objects that may cause damage, it must be protected with a 4-5 cm thick cementitious screed.

Precautions to be observed during application

In hot weather, on windy or very sunny days, it is recommended to spray the surface with water to prevent rapid evaporation of mixing water.

Cleaning

Idrosilex Pronto can be removed from tools with water before it hardens. Once hardened, cleaning becomes difficult and can be carried out only mechanically.

CONSUMPTION

1.6 kg/m² per mm of thickness.

It is advised:

- for slight moisture penetration: 2-3 kg/m²;
- for reservoirs or structures where standing water is present: 4-4.5 kg/m²;
- for water with a pressure of up to 1 atmosphere: 6-7 kg/m².

PACKAGING

25 kg bags.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

| | |
|---|---|
| Consistency: | powder |
| Colour: | grey or white |
| Density (kg/m³): | 1,300 |
| Dry solids content (%): | 100 |
| Storage life: | 12 months in original packing in a dry place |
| Hazard classification according to EC 1999/45: | irritant. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet |
| Customs class: | 3824 50 90 |

COMPOSITION AND PROPERTIES OF THE MIXTURE (at +20°C - 50% R.H.)

| | |
|---|---|
| Mixing ratio for application by brush: | one 25 kg bag of Idrosilex Pronto with 6-6.5 litres of water |
| Mixing ratio for application by trowel: | one 25 kg bag of Idrosilex Pronto with 5-5.5 litres of water |
| Mixing ratio for application by spraying: | one 25 kg bag of Idrosilex Pronto with 6.25 litres of water |
| Density of mix (kg/m³): | 1,650 ± 50 |
| pH of mix: | approx. 12 |
| Minimum and maximum temperature for application: | from +5°C to +35°C |
| Pot life at +20°C: | 2 h |
| Application of following coats: | after 5 hrs but not more than 24 hrs at +20°C |
| Ready for use: | 7 days |

FINAL PERFORMANCE

| | |
|---|---------------------|
| Temperature when in use: | from -30°C to +90°C |
| Adhesion to concrete after 28 days (N/mm²): | > 1.5 |



Application of Idrosilex Pronto by trowel



Application of white Idrosilex Pronto by spray gun in highway tunnel

Idrosilex Pronto

All relevant references for the product are available upon request and from www.mapei.com

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Idrosilex Pronto contains cement, that in contact with sweat or other bodily fluids produces an irritant alkaline reaction and allergic reactions to those predisposed.

Wear protective gloves and goggles.

For further information consult the safety data sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical applications; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone, is fully responsible for any consequences deriving from the use of the product.



Bertini hydroelectric canal - Como - Italy. Surfaces treated with Idrosilex Pronto

STORAGE

Idrosilex Pronto must be stored in a dry place in original, unopened packing.

Manufactured in compliance with the regulations of the 2003/53/EC Directive.

