

DEEP SHIELD

PENETRATING WATERPROOF



DATA SHEET UPDATED 25/07/2024

Product information

SUPRIMO DEEP SHIELD penetrating waterproofing agent is designed to increase the water resistance of concrete structures exposed to periodic and constant exposure to water.

Its components interact with the concrete minerals in the capillary pores to form insoluble salts that prevent moisture penetration. This interaction increases the water resistance by 3 levels, the overall resistance by 7%, and the frost resistance of the concrete by 1 level (at least 25 cycles). The full effect is achieved after 28 days.

- + Increases resistance to frost
- + Protects against humidity
- + For indoor and outdoor use
- + Water 0.15–0.18 L / 1 kg

Recommended uses

- Concrete or reinforced concrete bases with compressive strength of at least 15 MPa.
- Indoor and outdoor, on vertical, horizontal, and ceiling surfaces.

Coverage

1,6–1,8 kg/m² * 1 mm

Application instructions

Surface preparation

The base must be strong, stable, dry, level, free of ice (frost), and free of biological damage, efflorescence, dust, lime, oils (including formwork oils), grease, paint residues, cement (gypsum) milk, and other contaminants that can reduce adhesion. Vertical and horizontal joints, seams, and cracks must be widened to a depth of 3-5 cm, and then sealed with repair material. Moisten the surface until it is completely saturated (i.e., it no longer absorbs water), avoiding the formation of puddles.

Preparation of the solution mixture

Gradually add the dry mixture to clean, impurity-free water (between +10 °C and +25 °C) and mix thoroughly with a mixer for 3–5 minutes until a homogeneous, lump-free mass is obtained. After 5 minutes, mix again for 3 minutes, after which the solution is ready for use.

Application

The waterproofing should be applied in at least two layers. The recommended thickness for each layer is 1–2 mm.

Apply the first layer with a brush in one direction without gaps, ensuring it is thoroughly worked into the base. After approximately 1–1.5 hours, once the first layer has hardened but is still wet, apply the second continuous layer of waterproofing in a direction perpendicular to the first using a spatula or brush.

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Important notes

1. Residual moisture content of the base should be no more than:
 - Concrete: 3%
 - Cement: 4%
 - Gypsum: 6%
2. The use of primers during surface preparation and application is not allowed.
3. Irregularities of 1 mm or more must be eliminated before applying the waterproofing. Leveling the base with waterproofing is not allowed.
4. Do not use thickened mortar mix. Adding water and stirring will not restore its working properties.
5. Mixing with water at a temperature higher than recommended may result in loss of working properties, reduction of technical characteristics, and defect formation.
6. Before each new mixing, the container must be cleaned of any remaining old material.
7. Wash the tools with water immediately after completing the work.
8. Protect the waterproofing from mechanical damage. Violation of the coating's integrity is prohibited.
9. During the application and setting of the solution, the surface should be protected from direct sunlight, temperature changes, drying out (spray water), drafts, precipitation, and other adverse environmental factors.
10. Light pedestrian traffic (technological movement) is allowed after approximately 2 days.
11. Further work (facing, screed, etc.) should be carried out after the solution has dried and set, approximately 7 days later.
12. The drying time and strength gain of the solution depend on the layer thickness and environmental conditions.

Technical product data

Color	Grey
Amount of water for 20 kg	3.0–3.6 l
Amount of water per 5 kg	0.75–0.90 l
Time of use of the solution mixture	40 min
Setting the time of one layer	60–90 min
Estimated consumption	1.6–1.8 kg/m ² *1 mm
Thickness of the applied layer	1-2 mm
Increasing the compressive strength of concrete	Not less than 7%

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Increasing the frost resistance grade of concrete	Not less than 1 mark
Increasing the grade of concrete for water resistance	Not less than 3 steps
Adhesion	Not less than 1.8 mph
Further work	Not earlier than 7 days
Temperature of the work (environment and base)	+5 to +25°C
Operating temperature	+30 to +70°C
Packaging / Quantity on pallet / Pallet weight	5 kg / 60 pcs / 300 kg 20 kg / 22 pcs / 440 kg

The production date, batch number, and other additional information are indicated on the packaging.

Warning

You should use personal protective equipment for breathing, skin, and eyes when using the composition. In case of contact with eyes, rinse immediately with water and seek medical help. Observe additional fire safety measures not required.

Storage

The product is guaranteed in its original packaging, in standard conditions (+5 °C +35 °C or +41 °F to +95 °F), for 12 months from the date of production. Keeping the product in dry conditions is important, away from heat sources and direct sunlight.

Disclaimer

The information described in this Technical Data Sheet is based on our decades-long experience but is indicative. Therefore, the user must evaluate if the product is suitable for its specific application and assume responsibility for its use.