

Neopress® Crystal

Crystalline penetrating waterproofing mortar

Fields of application

Neopress® Crystal is a brushable, cementitious crystalline material, suitable for insulating and waterproofing of concrete. It is Ideal for water tanks, wells, silos, underground rooms and basements, tunnels, walls, as well as surfaces to be covered with tiles.

Properties

- Excellent adhesion on concrete, cement mortars, bricks, cement blocks, mosaic, etc.
- Penetrates and reacts with moisture and generates insoluble crystals which fills and seals the pores of the surface offering total impermeability to water.
- Shows resistance to positive and negative hydrostatic pressure and bridges cracks and cavities
- Water vapour permeable, protects from concrete carbonization
- It does not corrode the concrete reinforcement
- **Neopress® Crystal** remains reactive, in case of moisture presence and seals capillary cracks of width up to 0,4mm.

Technical characteristics

Consumption	1,6-1,7 kg/m ² for vertical surfaces and 2,2-2,4 kg/m ² for horizontal in 2 layers
Pot life (at +25°C)	30' min
Capillary absorption and water permeability (EN 13057)	0,055 kg/(m ² x h ^{0.5})
Water vapor permeability	S _d =0,044m
Adhesive strength (EN 1542:2001)	1,75 N/mm ²
Flexural strength (EN 12190)	6,9 N/mm ²
Compressive strength (EN 12190 Class I>35, Class II>50)	49,80 N/mm ² (polyamide wheels).
CO ₂ permeability (EN 1062-6 Method A requirement S _d >50m)	70,66m
Crack bridging (EN 1062-7)	1,19mm

Instructions for use

Surface preparation: The substrate should be clean, free from dust, greasy or oily substances, poorly adhering material, and should be sufficiently damp. Use high pressure water jet and abrasive blast cleaning equipment, to remove cement laitance and achieve an open textured surface. Iron or wooden elements should be removed or cut to a depth of 3cm. Cavities

Neopress® Crystal

or other imperfections must be repaired with **Neorep®**. Existing construction joints, non-leaking joints bigger than 0.4 mm wide, are opened lengthwise in a V shape to a depth of about 3 cm and are then filled as above.

Mixture preparation: Add 25 kg **Neopress® Crystal** into 7-7,5 kg water and mix with a low speed mechanical stirrer, until you obtain a homogeneous paste without lumps.

Application of Slurry: Apply the mixture using a brush or airless spray. When the first coat is dry (after 4 to 6 hours depending on weather conditions), apply the second layer working in a vertical or different direction to the one of the first coat. The first coat should be sufficiently damp to ensure proper bonding of the second one.

If flexibility is required dilute 4 kg **Revinex®** with 4 kg water and gradually add 25 kg **Neopress® Crystal**.

Dry-shake broadcast: Alternatively, **Neopress® Crystal** may be evenly distributed in powder form (consumption 2,3-3,0 kg/m²) on freshly-poured horizontal concrete slabs once they have initially set, before final trowelling and finishing

Notes

- During the summer or whenever the weather is hot, it is advisable to dampen the coat after the application of the mortar to avoid dehydration and crack formation. Do not apply at temperatures less than 5 °C.
- For concrete structures that hold liquids (e.g. reservoirs, water tanks, etc.), **Neopress® Crystal** should be allowed to set for 7 days before filling with liquid.

Colours

Grey

Packing

Carton bags 25kg
Plastic containers 25kg (upon special arrangement)

Storage stability

Carton bags: 12 months
Plastic containers: 24 months

Note: the above periods are meant for the product kept in the unopened original packing, in a dry environment protected from frost, humidity and direct sunlight.

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1922-CPR-0386

DoP No.: 4950-29

EN 1504-2

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Surface protection products

Coating

Water vapour permeability	Class I
Adhesion strength	$\geq 1,5\text{N/mm}^2$
Capillary absorption and permeability to water	$W < 0,1\text{Kg/m}^2\text{h}^{0.5}$
Permeability to CO ₂	$S_D > 50\text{m}$
Reaction to fire	Euroclass F
Dangerous substances	Comply with 5.3

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