

Neopress®

Crystalline brushable waterproofing mortar



Description

Crystalline brushable waterproofing mortar.
May be also enriched with the co-polymer emulsion **Revinex®** for enhanced properties, especially in case of applications where flexibility is required

Fields of application

Basements, foundations, shafts, tanks, silos, tunnels, planter boxes, swimming pools, surfaces under tiles, e.g.



Properties - Advantages

- Offers impermeability to water and long-term protection on horizontal and vertical construction surfaces
- Exhibits excellent adhesion on concrete surfaces and various other construction substrates
- Protects concrete against carbonation and prevents corrosion of steel reinforcement
- Resistant to positive and negative hydrostatic pressure
- Presents crack-bridging properties and seals pores and capillaries
- Water vapour permeable
- Eco-friendly & user-friendly

Packing

25kg

Colour

Grey

Certificates – Test reports

- CE certification acc. to EN 1504-2
- Test report by the external independent quality control laboratory Geoterra (No. 2015/397)
- Test report for the determination of compressive and flexural strength for the mortar **Neopress®** and the system **Neopress® - Revinex®** by the external quality control laboratory CERECO (No. 125E & 122A)

Technical characteristics	
Water requirement per 25kg bag	7-7,5L
Compressive strength (EN 1015-11)	32MPa (±3)
Compressive strength (enriched 20% with Revinex [®] , EN 1015-11)	27MPa (±1)
Flexural strength (EN 1015-11)	4,5MPa (±1)
Flexural strength (enriched 20% with Revinex [®] , EN 1015-11)	8MPa (±1)
Resistance to penetration (52 hours, EN 1015-9)	12,8MPa
Adhesion strength (EN 1542)	>1,5N/mm ²
Liquid water permeability (EN 1062-3)	<0,1kg/m ² h ^{0,5}
CO ₂ diffusion - Equivalent air layer thickness Sd (EN 1062-6)	>50m
Water-vapor diffusion - Equivalent air layer thickness Sd (EN ISO 7783)	1,9m (Class I – permeable)
Consumption: 2-2,5kg/m² for two layers	

Application conditions – Curing details	
Application temperature (ambient - substrate)	+5°C min. / +35°C max.
Pot life (+20°C, RH 50%)	30 minutes
Drying time (+20°C, RH 50%)	4-6 hours (per layer)
<i>*Low temperatures and high humidity during application and/or curing prolong the above times, while high temperatures reduce them</i>	

Instructions for use

Substrate preparation

The cementitious substrate must be properly prepared mechanically (e.g. grinding, water jetting, shot blasting, milling etc.) to smooth out irregularities, open the pores and create conditions for optimum adhesion. Older coatings and loose friable material must be completely removed by brushing or by the use of a suitable sander and a high suction vacuum cleaner etc.

Repairs to the substrate, filling of joints, blowholes/voids and surface leveling, repairs in areas with tie holes (after being cut and opened at a depth of 3cm) must be carried out using appropriate repairing products, such as the non-shrinking fiber-reinforced cementitious repairing mortar **Neorep**[®]. Existing construction joints and cracks of width greater than 0,4mm shall be opened longitudinally in V shape at a depth of app. 3cm and then filled as above.

If any oxidized reinforcement is visible, it is recommended, after removing the loose rust, to use the rust converter **Neodur**[®] **Metalforce** and then apply the anti-corrosive mortar **Ferrorep**[®]. These spots shall be also covered later with **Neorep**[®].



In spots where there is existing flow of water, **Neostop**[®] is recommended to be used prior to the application of **Neorep**[®]. Prior to the application of **Neopress**[®], the substrate must be stable, clean and free of dust, oil, grease, dirt, moss or any poorly adhering material. The surface must be as flat and smooth as possible. The cementitious surface must be moistened thoroughly by water, without any remaining ponding water (“saturated surface-dry (SSD) condition”).

Application

To the indicated amount of 7-7,5kg of clean water, 25kg of **Neopress**[®] are gradually added, stirring the mixture at the same time with a low-speed electric stirrer, in order to become homogeneous. In case of addition of **Revinox**[®], the recommended ratio is 5kg **Revinox**[®] : 5kg water : 25kg **Neopress**[®]. If a lower quantity of **Revinox**[®] is included in the mix, the quantity of water is adjusted accordingly.

Then, the mixture is applied initially in all the corners reinforced with the alkali-resistant fiberglass mesh **Gavazzi**[®] **0059-A** (“wet-on-wet” application of two layers with the fiberglass mesh positioned in between) and, at the same time, in one layer over the whole horizontal and/or vertical surfaces by brush or smooth trowel.

As soon as the first layer of cementitious waterproofing has hardened and after slightly saturating it with water, the second waterproofing layer is applied in a vertical or different direction than the previous one.

If required, every subsequent layer is applied in the same way. The thickness of each layer should not exceed 1mm of thickness, in order to ensure proper curing of the material. For enhanced tear resistance, it is recommended that the system is thoroughly reinforced with the alkali-resistant fiberglass mesh **N-Thermon**[®] **Mesh 90gr**.

After the application of the final layer, it is essential to frequently moisten the surface with water (for at least 2-3 days with 2-3 sprays per day) and to protect it from the outside weather conditions (direct sunlight, wind, rain, frost) for 3-5 days.

Special notes

- **Neopress**[®] should not be applied under wet conditions, or if wet conditions or rainy weather are expected to prevail during the application or the curing period of the product
 - Water tanks should be filled with water after at least 7-10 days (depending on prevailing atmospheric conditions) have passed from the application of the final layer. The water used for the initial filling of the tank should be disposed
 - The durability of the waterproofing system (and especially its resistance to water pressures) is enhanced by the increase of the total dry film thickness, which may be achieved through the application of an additional layer or layers
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Appearance	Cementitious mortar
Colour	Grey
Packing	25kg in plastic pails
Cleaning of tools – Stains removal	By water immediately after the application. In case of hardened stains, by mechanical means only.
Storage stability	12 months, if kept in the original sealed packaging, protected from frost, humidity and exposure to solar radiation.

CE	
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<p>DoP No.: 4950-55</p> <p>EN 1504-2</p> <p>Neopress®</p> <p>Surface protection products</p> <p>Coating</p>	
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	Complies with 5.3

The information supplied in this datasheet, concerning the uses and the applications of the product, is based on the experience and knowledge of NEOTEX® SA. It is offered as a service to designers and contractors to help them find potential solutions. However, as a supplier, NEOTEX® SA does not control the actual use of the product and therefore cannot be held responsible for the results of its use. As a result of continual technical evolution, it is up to our clients to check with our technical department that this present data sheet has not been modified by a more recent edition.

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