Neocret®

Cementitious fiber-reinforced mortar of high thixotropy, for repairing applications

CE

Description

Cementitious fiber-reinforced mortar of high thixotropy, for repairing applications

Fields of application

- For easy and durable non-structural repairing jobs on damaged, cracked or broken concrete elements
- As a repairing plaster, either locally (in a thickness up to 30mm) or in wider areas (in a thickness up to 15mm)
- Ideal solution for repairs at edges and corners or filling holes and imperfections after electrical works, etc.

Properties - Advantages

- Ready-to-use fiber-reinforced mortar of high thixotropy
- Fast drying and easily applied, both on vertical surfaces and ceilings
- Very good resistance to humidity
- High adhesion on various construction substrates

Packing

25kg and 5kg

Colour

White

Certificates – Test reports

- CE certification according to EN 1504-3
  Classified as a concrete repairing mortar of Class R2
- Test report by the external independent quality control laboratory Geoterra (No. 2015/397 & 43/2013)

Technical characteristics	
Water requirement per bag of 25kg	4-4,5L
Maximum grain size (D_{max})	1,6mm
Chloride ion content (EN 1015-17)	≤0,05%
Compressive strength (28 days, EN 12190)	≥20MPa
Flexural strength (28 days, EN 1015-11)	≥8MPa

Adhesion strength (EN 1015-12)	≥1,5N/mm^2
Resistance to freeze-thaw cycling with de-icing salts (EN 13687-1)	≥1,0MPa
Capillary absorption (EN 13057)	<0,5kg/m^{2}h^{0,5}
Reaction to fire (EN 13501-1)	Class A1
Maximum application thickness per layer (locally)	3cm
Consumption: 1,5-1,8kg/m^2 per mm of thickness	

Application conditions - Curing details	
Application temperature (ambient - substrate)	+5°C min. / +35°C max.
Pot life (+25°C)	~45 minutes

Instructions for use

Substrate preparation

The surfaces must be stable, clean, protected from rising moisture and free of dust, oil, grease and loose materials. The cementitious surface must be saturated thoroughly with water to achieve a saturated surface-dry (SSD) condition, without any ponding water.

Application

To the indicated amount of clean water, the respective amount of **Neocret®** is gradually added, while stirring with a low-speed stirrer, in order to obtain a homogeneous mixture, with the desired workability. Then, the mortar is applied on the surface by trowel or spatula and in a thickness within the specifications of the material. As soon as the mortar begins to set, finishing may be done by a plastering trowel.

In case of applying multiple layers, the previous layer should be roughened and its surface should be moistened again.

Special notes

- **Neocret®** should not be applied under wet conditions, or if wet conditions or rainy weather are expected to prevail during the curing period of the product
- It is advisable that the stirring of the mixture is done mechanically and not manually with a rod, etc.
- When the mixture starts to harden, it is not recommended to add any extra water for improving its workability
- Workability and drying times are prolonged by low temperatures and high humidity during application and/or curing, while they are reduced by high temperatures
- The fresh mortar should be protected from fast drying by proper means. In applications with direct exposure to the sun, and especially when high temperatures prevail, it is recommended to regularly wet the mortar for 24-48 hours after the application, in order to prevent cracking from fast dehydration and to achieve the proper curing of **Neocret®**

Appearance	Cementitious mortar
Colour	White
Packing	25kg and 5kg in bags
Cleaning of tools – Stains removal	By water immediately after application. In case of hardened stains, by mechanical means
UFI code	FPH0-F05E-A005-59TM
Storage stability	1 year, stored in its original sealed packing, protected from frost, humidity and exposure to sunlight

CE

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DoP No.: 4950-11

EN 1504-3

Neocret®

Mortar for non-structural concrete repair

Compressive strength	Class R2
Chloride ion content	≤0,05%
Adhesion	≥0,8MPa
Capillary absorption	≤0,5kg/m^{2}h$^{1/2}$
Thermal compatibility, freeze-thaw	≥0,8MPa
Dangerous substances	Complies with 5.4
Reaction to fire	Euroclass A1

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