



MORCEMREST® C 5

One-component repair and surface leveling mortar for layers of up to 5 mm



DESCRIPTION

One-component, cosmetic R3 repair and surface leveling mortar.

TECHNICAL CHARACTERISTICS

Product made with special cements, synthetic resins and silica fume.

ADVANTAGES AND USES

- Repair mortar class R3 according to EN-1504-3.
- Excellent adhesion.
- Excellent re-profiling and re-shaping properties.
- Very good compatibility with concrete.
- Water and weather resistant.
- Repairing and leveling damaged concrete surfaces, structures, pillars, exterior walls.
- Superficial and cosmetic repairs of all types of prefabricated tile and stone.
- Sealing pores for concrete or mortar substrates.
- Regularization of concrete surfaces.
- Fine rendering on concrete, brick walls or mortar.

SUITABLE SUBSTRATES

- The substrate should be resistant, stable, sound and clean, free of dust, traces of mold release agents, organic products and friable parts.
- Absorbent substrates should be wetted beforehand to saturate them, avoiding flooding.

APPLICATION PROCEDURE

Mixing the mortar:

- Add two thirds of the water stipulated (4 liters approximately 17%) and gradually mix all the powder while stirring. Then add the remaining water and mix for 2 more minutes. Do not prepare more material than will be used in 30 minutes (at +20°C).

Application:

- Apply the product with a trowel or spatula in 2 to 5 mm layers. Before applying the final finish, let it settle partially.

Curing:

- Protect from wind, frost and sun during hardening. To prevent excessive drying it is advisable to cover the surface with wet sacking or plastic sheets during curing.

RECOMMENDATIONS

- Do not add more water to the mortar than the recommended amount and do not remix.
- Do not apply at temperatures below 5°C or above 30°C.
- Do not add cement, sand or other substances that may affect the properties of the material.
- Tools and implements should be cleaned with water immediately after use, to avoid the material hardening, which would then have to be removed by mechanical means.

CONCRETE REPAIR

MORCEMREST® C 5

PACKAGING AND STORAGE

TECHNICAL DATA

- Do not apply in layers thicker than 5 mm.

Bags of 25 kg.

Shelf life: 12 months in its sealed original packaging, sheltered from weather conditions and humidity.

(Statistical data obtained under standard conditions)

R3 REQUIREMENTS		PRODUCT DATA
Aspect		GREY powder
Density of paste		Aprox. 1,9 ± 0,1 gr/cm³
Granulometry		Dmax 0.2 mm
Coat thickness		2 mm min. 5 mm max.
Resistance to compression 28 days (EN 12190)	≥ 25 N/mm²	≥ 25 N/mm²
Chloride content (EN 1015)	≤ 0,05%	≤ 0,01%
Adhesion (EN 1542)	≥ 1,5 N/mm²	≥ 1,5 N/mm²
Resistance to carbonation (EN 13295)	dk ≤ concrete control type MC (0,45)	Pass
Module of elasticity (EN 13412)	≥ 15 GPa	≥ 15 GPa
Capillarity absorption (EN 13057)	≤ 0.5 kg / m² x h½	≤ 0.3 kg / m² x h½
Thermal compatibility part 2 (EN 13687-1)	≥ 1.5 N/mm²	≥ 1.5 N/mm²
Sudden cooling cycle after high temperatures (EN 13687-2)	≥ 1.5 N/mm²	≥ 1.5 N/mm²
Thermal compatibility part 4: Dry thermal cycle (EN 13687-4)	≥ 1.5 N/mm²	≥ 1.5 N/mm²
CURVE RESISTANCE		
Compression: (EN 12190)		
1 day		≥ 8 N/mm²
7 days		≥ 18 N/mm²
28 days		≥ 25 N/mm²
Flexural strength (EN 12190)		
28 days		≥ 7 N/mm²
Water content in mixture		16%
Performance		2 kg./m²/ mm thick
Classification complies to EN 1504-3:2006		R3
Type		PCC

CE MARK

	
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CONCRETE REPAIR

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EN-1504-3
MORCEMREST C-5

PCC mortar for structurally repairing concrete and leveling surfaces, for layers, of 2 to 5 mm (made with polymer-modified hydraulic cement).

Compressive strength	R3 Class
Chloride content	≤ 0.05%
Adhesion	≥ 1.5 MPa
Resistance to carbonatation	Pass
Elasticity module	≥ 15 GPa
Thermal compatibility part 2 y 4	≥ 1.5 MPa
Capillary absorption	≤ 0.5 kg.m ² h ^{0.5}
Reaction to fire	A1

LEGAL DISCLAIMER

The instructions for use are given according to our tests and knowledge and do not imply any commitment by GRUPO PUMA nor free the consumer from the examination and verification of the products for their correct use. Claims must be accompanied by the original packaging to allow a proper traceability.

GRUPO PUMA is not responsible, in any case, for the application of its products or constructive solutions carried out by the application company or other parties involved in the process and / or execution of the work, limiting the responsibility of GRUPO PUMA exclusively to the damages directly attributable to the supplied products, individually or integrated in systems, due to failures in their manufacturing process.

In any case, the drafter of the work project, the technical management or the person responsible for the work, or collaterally the application company or other parties involved in the process and / or execution of the work, must ensure the suitability of the products addressing the characteristics of them, as well as the conditions, support and possible pathologies of the work in question.

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