

TECHNICAL DATA SHEET**R4 RESIN REINFORCED MORTAR****DESCRIPTION**

Ready to use fiber-reinforced fast-setting resinous mortar of very high mechanical strength, non-shrinking. It is a coarse-grained repair cement mortar with excellent resistance to compression, impact and vibration.

It is classified as PCC R4 type concrete repair mortar, according to EN 1504-3 standard.

APPLICATION AREAS

It is applied on cementitious substrate to ensure good adhesion of the material. It is necessary to wet the surface with water before application. It is suitable for the repair and filling of floors, as well as for filling columns and walls, by injection into formwork.

It is ideal for repairing damages to building facades, corners and beams, which have resulted from the oxidation of their reinforcement, from decay or impact.

APPLICATION INSTRUCTIONS**Surface preparation**

The cementitious substrate should be free of loose spots, dust, oils and must be wetted before application.

Application

Empty the powder into a clean container with water, at a ratio of 25kg mortar to 5.5 lt and mix with a low-speed drill or a concrete mixer. The mixture has a workability of 2 hours and is applied with a trowel, at a minimum thickness for horizontal surfaces of 2 cm and at a maximum thickness of vertical surfaces of up to 8 cm. In the event that a second coating follows, the surface of the first coating should be roughened in order to achieve proper adhesion

CONSUMPTION

15kg/m²/cm

CLEANING

Clean the tools immediately after use with water.

STORAGE

12 months from the date of production in unopened package kept in a dry place

SAFETY

Read carefully the label of the product before use. Detailed instructions regarding hazards and safety are provided in the Safety Data Sheet, which is available upon request.

PACKAGING

25kg paper bag/1350Kg pallet.

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Technical Data (Measurement conditions 23°C and 50% R.H.):

Form	cementitious powder	Coherence	193 mm
Color	Grey	Compressive strength	46,0 N/mm ²
Water demand	5,5lt/25kg	Adhesion strength (28 days)	2,2 N/mm ²
Application temperature	from 5 °C to 35 °C	Flexural strength:	8,8 N/mm ²
Pot life	2hr	Thermal compatibility (50 freeze-thaw cycles)	≥ 2.0 MPa
Consumption	15kg/m ² /cm	Chloride ion content	≤ 0.05%
Specific gravity of dry mortar	1600 Kg/m ³	Elastic modulus	≥ 20 GPa
Grain size	Up to 2mm	Capillary water absorption	≤ 0,14 kg/m ² min ^{0,5}
Application thickness	min 2cm for horizontal application max 8 cm for vertical application	Reaction to fire	Class A1
Carbonation resistance	Pass		



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NOTICE

The technical information and instructions provided in this datasheet referring to the application and end use of PROLAT products are based on the company's expertise and experience with the products to date. They are provided in good faith under the condition that the products are stored, used, and applied in accordance with PROLAT's instructions. However, given our inability to directly oversee conditions at construction sites or during product application, the company cannot guarantee the suitability of its products for specific purposes, nor does it assume any legal responsibility based on the information provided in this brochure, whether written, oral, or otherwise communicated. Users are advised to conduct a small test to assess the suitability of the products for their intended application and purpose of use. The company reserves the right to modify the properties of its products without prior notice.

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PROLAT S.A. Production of Minerals and Mortars Afroditis 50 - P. Faliro, PC:175 61, Greece DoP No: 038-PROLAT-CPR
EN 1504-3:2005 NB: 0437 R4 RESIN REINFORCED MORTAR Concrete repair product for structural repair CC mortar (based on hydraulic cement, polymer modified) Compressive strength: class R4 Chloride ion content: ≤ 0.05% Adhesion: ≥ 2.0 MPa Carbonation resistance: Pass Elastic modulus: ≥ 20 GPa Thermal compatibility part 1: ≥ 2.0 MPa Capillary absorption: ≤ 0.5 kg·m ⁻² ·h ^{-0.5} Dangerous substances: comply with 5.4 Reaction to fire: Euroclass A1