

REOPLAST R4

FIBRE-REINFORCED STRUCTURAL REPAIR
MORTAR (CLASS R4 – EN 1504-3)



DESCRIPTION

REOPLAST R4 is a fibre-reinforced, compensated-shrinkage repair mortar designed for structural restoration of damaged concrete elements. It complies with the performance requirements of EN 1504-3 for R4-class PCC mortars.

FIELDS OF APPLICATION

- Structural repair of concrete (up to 30 mm thickness in a single application)
- Suitable for indoor/outdoor use, vertical and horizontal surfaces
- Flooring, walls, ceilings
- Non-structural repair of pillars, beams, precast panels and masonry
- Reconstruction of concrete affected by gravel pockets or cold joints
- Ideal for balconies, cornices, mouldings and architectural elements

PRODUCT DATAS

Base	-
Catalysis ratio	Single-component
Mixing ratio	-
Composition	Cementitious mortar + synthetic polymers
Appearance	Granular powder
Specific gravity	2000 kg/m ³
Solid content	100%
Dilution	-
Pot life	60 minutes

CONSUMPTION

17.0 kg/m² per cm of thickness.

COLOUR

- Grey.

PACKAGING

- 25 kg bags.

TECHNICAL DATA

Parameter	Result	Standard
Mortar type	R4	-
Binder type	PCC	-
Grain size	0–1.2 mm	-
Application thickness	2–40 mm	-
Compressive strength (24 h)	20 MPa	-
Compressive strength (7 days)	45 MPa	-
Compressive strength (28 days)	≥ 60 MPa	-



Date 15/10/2025

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PRODUCT SHEET

Parameter	Result	Standard
Flexural strength (24 h)	5 MPa	-
Flexural strength (7 days)	9 MPa	-
Flexural strength (28 days)	10 MPa	-
Chloride ion content	≤ 0.05%	-
Capillary absorption	≤ 0.5 kg/m ² ·h ^{0.5}	-
Water vapour permeability	Sd < 5 m	-
Elastic modulus	≥ 20 GPa	-
Adhesion to concrete	≥ 2.0 MPa	-
Reaction to fire	Euroclass A1	-

APPLICATION

SUBSTRATE PREPARATION

Application surfaces must be perfectly clean and rough. Perform hydro-sandblasting and pressure washing to remove all dirt, weak parts and contaminants. Thoroughly saturate the substrate with clean water until refusal, then wait for excess water to evaporate before applying the mortar.

PRODUCT APPLICATION

Mix REOPLAST R4 with clean, fresh water using a mixer fitted with a paddle. Pour the powder into the water and mix until a homogeneous, lump-free mortar is obtained. Avoid entrapping air.

Apply manually using trowel or flat spatula up to a maximum thickness of 4 cm. Surface finishing should be carried out when the mortar begins to set (20–25 minutes). Cure the material by maintaining moisture for at least the first 24 hours.

CLEANING EQUIPMENT

Clean tools with water immediately after use. Hardened material can only be removed mechanically.

STORAGE

Store in original sealed bags in a dry place at +5°C to +25°C for up to 12 months. Refer to SDS and product label.

STORAGE

- Do not use on smooth or improperly prepared substrates.
- Do not add cement, sand, lime or other components.
- Do not apply on gypsum, metal, plastic, wood or non-rigid substrates.
- Protect fresh mortar from direct sun and driving rain.
- Moist cure the applied material for at least the first 24 hours.



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HEALTH AND SAFETY

Refer to the latest Safety Data Sheet for instructions on handling, storage and disposal. Do not release product or empty containers into the environment.

For **PROFESSIONAL USE ONLY**.

LEGAL NOTICE

The information and recommendations given above, although they correspond to our best experience, must in any case be considered purely indicative and must be confirmed by exhaustive practical applications. Therefore, before using the product, anyone who intends to make use of it must determine whether it is or is not suitable for the intended application and, in any case, assumes all responsibility that may arise from its use. Always refer to the latest updated version of the technical data sheet, available on the website btechitalia.eu.

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