

BS 18

EN 1504-3
R2

Fiber reinforced repair mortar for fair-faced concrete

DESCRIPTION

Fine-grained, fibre-reinforced, grey cementitious mortar, suitable for the aesthetic repair (puttying) of fair-faced concrete elements. It contains resins which improve adhesion to the substrate and increase elasticity and watertightness. It contains anti-corrosion additives to protect the reinforcement. Does not contain lime.

CHARACTERISTICS/ADVANTAGES

- Very good adhesion to the substrate
- High mechanical strengths.
- No cracking
- Creates an alkaline environment which protects iron reinforcement from corrosion.
- Stable quality.

FIELDS OF APPLICATION

Use to cover and aesthetically repair blebs and other imperfections noticed after removal of the casing of various concrete elements.

It does not provide a solution in case of structural stability issues.

If there is already partial corrosion of the reinforcement, it should be checked and repaired with specialized products.

PRODUCT INFORMATION

Composition	Portland cement, selected aggregates and special additives.
Appearance/Colour	Grey powder
Packaging	Paper bag 25 kg - 1500 kg pallet (60 paper bags) Big-bags of 1000 kg In bulk in a silo with a capacity of 12 - 18 - 22 m ³
Storage conditions	Store in the original, closed, sealed packaging, protected from direct sunlight and frost and at temperatures from +5°C to +35°C
Shelf life	12 months from date of manufacture

TECHNICAL CHARACTERISTICS

Compressive strength in 28 days:	≥ 25 MPa (EN 12190)
Flexural strength in 28 days:	≥ 4 MPa (EN 12190)
Chlorides:	≤ 0,05% (EN 1015-17)
Adhesion Strength:	≥1,5 MPa (EN 1542)
Thermal compatibility (Part 1- freeze/thaw)	≥1,5 MPa (EN 13687-1)

APPLICATION INFORMATION

Substrate temperature	+5°C / +35°C
Ambient temperature	+5°C / +35°C
Mixing ratio	About 4 lt of water per bag of 25 kg
Consumption	Approx. 20 kg of dry mortar per m ² for 1 cm of thickness

DIRECTIONS OF USE

SUBSTRATE PREPARATION

The substrate must be firm, compact, dry and free from dust, loosely attached particles and all kinds of dirt. It is recommended to wet the substrate before applying the mix

MIXING

Mix in clean container, with low speed electric drill, a 25kg bag of BS 18, with about 4 kg (lt) of clean water, until you get a homogeneous mass without lumps

APPLICATION

Apply the wet mortar using a trowel or spatula.

TOOLS CLEANING

Fresh material should be removed from the equipment with water immediately after application. Hardened/mature material can only be removed by mechanical means.

IMPORTANT NOTICE

The application of the adhesive and installation of the tiles should be carried out at temperatures between +5°C and +35°C, without exposure to direct sunlight.

COMPLIANCE WITH STANDARDS

CE marking and Declaration of Performance based on standards EN 1504-3 (Protection and repair of concrete structures - Structural and non-structural repair)

HEALTH, SAFETY & ENVIROMENTAL PROTECTION

Detailed information and instructions regarding the safe management of the product and in matters of Health & Safety, are provided in the most recent Safety Data Sheet (SDS), copies of which are available on the company's website <https://marmoline.gr/> or upon request.

LEGAL NOTICE

We guarantee the quality of all our products, based on their technical specifications, as described in the Declaration of Performance (CE) and this Technical Data Sheet. Such guarantee refers only to the products that we deliver for use and never to its application or final result, which largely depends on the experience and quality of work of each user and on the application conditions. The user is advised to test the product on a small scale, and if he is satisfied with the result, then to use the product on large scale in his project. All data stated in this Technical Data Sheet are based on laboratory tests. The really measurable data might differentiate due to conditions that are not subject to our control. The recommendations and implementation instructions must be considered by the user as indicative, and always with given that the

product has been traded and stored according to its instructions. As it is not possible to control the parameters/conditions of its application product in practice, no guarantee is provided for the final result of each application. Consequently, no legal liability of the Company can be established based on the information and instruction given in this Technical Data Sheet. The Company reserves the right to modify data listed in this Product Data Sheet, with no previous warning. Users must refer to the latest version of the product Technical Data Sheet

 12 DoP:045 MARMO-CPR 0906
NORDIA S.A. 364 Kifissias Av., 15233 Chalandri, Athens/ Greece
EN 1504-3:2005 BS 18 Concrete repair mortar (PCC mortar) for non-structural repair
Compressive strength: Class R2 Chloride ion content: $\leq 0.05\%$ Reaction to fire: class A1 Adhesive bond: $\geq 1.5\text{MPa}$ Thermal compatibility (Part 1 –freeze/thaw): $\geq 1.5\text{ MPa}$ Dangerous substances: comply with §5.4 / Refer to product's SDS see detailed DoP in https://marmoline.gr