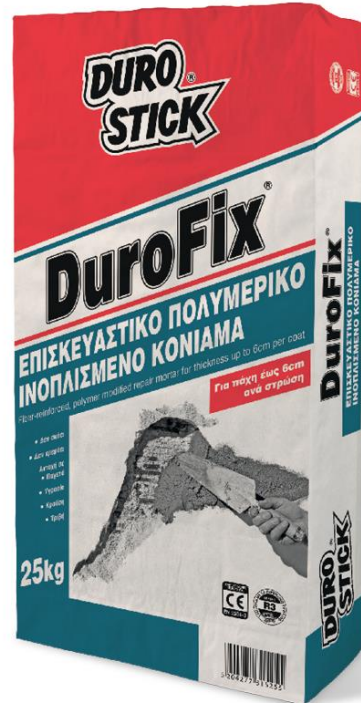


DUROFIX



Fiber reinforced, polymer modified repair mortar for thicknesses of up to 6cm/coat



PROPERTIES

Fiber reinforced repair cement mortar, of high strength. Its composition contains special polymers, hydraulic binders, selected aggregates, and synthetic fibers. Suitable for highly demanding repairs of concrete elements. Classified as concrete repair product, in PCC R3 category, per EN 1504-3.

ADVANTAGES

- Adheres strongly to the substrate.
- Great workability.
- Does not shrink and does not crack
- Does not sag in thickness up to 6cm, even on vertical surfaces.
- Resistant to moisture, frost, impact, and abrasion.
- High mechanical strength.

APPLICATIONS

DUROFIX is suitable for repairing all construction/manufacturing defects for thicknesses of up to 6cm per coat, without the requirement of any formwork. It is also suitable for all concrete repair

works, for restoring broken edges in steps and balconies as well as columns and beams. Ideal for constructing coving mortars for roofs, where horizontal and vertical surfaces meet.

USE

1. Surface preparation

The substrate must be free loose materials, dust and oils. Before the application, thoroughly soak the substrate or prime using the micromolar stabilizer, AQUAFIX of DUROSTICK.

2. Application

Empty DUROFIX in a clean container with cool water, at a ratio of 25kg mortar to 4.5lt of water. Mix with a low-rpm drill or use a cement mixer, until a lump free, homogeneous mixture is created that is suitable for every application. The mixture remains workable for three hours. Apply the mortar by either 'pressing' it with a gauging trowel when performing repairs or by using an injection machine, when surfaces require a coating material with high mechanical strength.

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NOTES

- When the steel reinforcement (rebar) is corroded, remove all the rust with RUST REMOVER of DUROSTICK and apply DUROSTICK RUST FREE POWDER the cementitious corrosion inhibitor for rebar protection
- Adding DUROSTICK D-20 in the mixing water at a ratio of 1: 3 or DUROMAX at a ratio of 1: 6, increases its flexibility and watertightness, but also changes its setting time
- Do not add any water if the mixture has started to cure
- Protect the final surface with wet burlap or occasional soaking for the next 24 hours (especially in the summer months)
- After its full cure, the product is harmless to health and the environment.

CLEANING

Clean all tools with water, immediately after use. The cured product can only be removed by mechanical means.

CONSUMPTION

Approximately 18kg/m²/cm thick coat.

STORAGE

Store in the factory sealed packages, in dry and shaded places, for at least 12 months from production date.

SAFETY DIRECTIONS

The product contains Portland cement. Before use, refer to the cautions on the product packaging or the Material Safety Data Sheet.

PACKAGING

Paper bag of 25kg on 1,500kg pallet

TECHNICAL SPECIFICATIONS (Measurement conditions 20°C and 50% R.H.)

Form - Color	Fiber reinforced cement mortar - Gray
Toxic	No
Bulk density of dry mortar	1.47±0.05kg/lt
Bulk density of fresh mortar	2.00±0.05kg/lt
Maximum grain size	5mm
Water requirement	4.5lt water in 25kg mortar
Application temperature	From +5°C to +35°C
Temperature resistance	From -30°C to +80°C
Pot life	3 hours
Maximum application thickness	6 cm
Chlorides content, per EN 1015-17:	≤ 0.05%
PRODUCT PERFORMANCES	
Flexural strength, per EN 12190, after:	
• 28 days	≥ 5.50 N/mm ²
Compressive strength, per EN 12190, after:	
• 48 hours	≥ 16.00 N/mm ²
• 7 days	≥ 24.00 N/mm ²
• 28 days	≥ 40.00 N/mm ²
Adhesion to concrete, per EN 1542	≥ 1.90 N/mm ²
Modulus of elasticity, per EN 13412	≥ 15 GPa
Resistance to carbonation	Yes
Thermal compatibility expressed as adhesion to concrete, per EN 13687, after:	
•50 freeze-thaw cycles •30 storm cycles •30 dry heat cycles	≥ 1.70 N/mm ²
Capillary water absorption w, per EN 13057	w < 0.45kg/m ² .h 0,5
Reaction to fire, per EN 13501-1	Euroclass A1
Where 1N/mm ² =1MPa	

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CE	
DUROSTICK S.A. ASPROPYRGOS ATHENS PC: 193 00 GREECE 12	
DoP No.: 036 EN 1504-3: 2005	
DUROFIX Concrete repair product for structural repair PCC mortar (based on hydraulic cement, polymer modified)	
Compressive strength:	class R3
Chloride ion content:	≤ 0.05%
Adhesive Bond:	≥ 1.50 MPa
Thermal compatibility part 1:	≥ 1.50 MPa
Carbonation resistance:	Passes
Elastic modulus:	≥ 15 GPa
Capillary absorption:	≤ 0.5 kg·m ⁻² ·h ^{0.5}
Dangerous substances:	comply with 5.4
Reaction to fire:	Euroclass A1

DUROSTICK S.A.

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