

## 5.4 Products for plastering & repairs

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



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

Form - Color	Fiber reinforced cementitious mortar - Gray
Toxic	No
Bulk density of dry mortar	1.47 ± 0.05 kg/lit
Bulk density of fresh mortar	2.00 ± 0.05 kg/lit
Maximum grain size	5mm
Water requirement	4.5 lt water in 25 kg 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%

### MECHANICAL STRENGTHS

Flexural strength, per EN 12190, after:	
• 28 days	6.50 ± 1.00 N/mm <sup>2</sup>
Compressive strength, per EN 12190, after:	
• 48 hours	18.00 ± 2.00 N/mm <sup>2</sup>
• 7 days	25.00 ± 1.00 N/mm <sup>2</sup>
• 28 days	45.00 ± 1.00 N/mm <sup>2</sup>
Adhesion to concrete, per EN 1542	≥ 1.90 N/mm <sup>2</sup>
Modulus of elasticity, per EN 13412	≥ 17 GPa
Resistance to carbonation	Yes
Adhesion after 50 freeze-thaw cycles, per EN 13687-1	≥ 1.80 N/mm <sup>2</sup>
Capillary water absorption w, per EN 13057	w ≤ 0.45 kg/m <sup>2</sup> ·h <sup>0.5</sup>

### CONSUMPTION

Approximately 18kg/m<sup>2</sup>/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.

### NOTE

After hardening, the product is harmless to health and the environment.

### PACKAGING

Paper bag of 25kg on 1,500kg pallet

### PROPERTIES

Fiber reinforced repair cement mortar with high mechanical strengths. Use it for coating thicknesses of up to 6cm per coat.

It does not shrink and is suitable for indoor and outdoor surfaces.

It provides easy workability and high adhesion.

It is resistant to frost and impact, abrasion, and moisture.

Because of its hydraulic binders, special polymers, selected aggregates and synthetic fibers in its composition, it does not burst nor crack and it does not sag at large thicknesses.

Classified as concrete repair product, in PCC R3 category, per EN 1504-3.

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 electric mixer 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 it by either 'pressing' with the gauging trowel, when performing repairs, or by using an injection machine, when surfaces require a coating material with high mechanical strengths.

### APPLICATIONS

DUROFIX is suitable for repairing all construction/manufacturing defects for thicknesses of up to 6cm per coat, without formwork.

Suitable for all concrete repair works, for restoring broken edges in steps and balconies as well as columns and beams (pic.1).

Also suitable for use as coving mortar for roofs (pic.2), where horizontal and vertical surfaces meet.

### NOTES

When DUROFIX is mixed with improving resins, such as DUROMAX, replace 10% of the mixing water with the resin. Alternatively, use DUROSTOP or D-20 of DUROSTICK, and replace 20-30% of the mixing water with the resin. This procedure increases adhesion and water tightness, flexibility and abrasion resistance of the mortar.

Protect the finish surface from frost and high temperatures. Soak the surfaces periodically, at least for the next 24 hours when applying thick coats.

### USE

#### 1. Surface preparation

The substrate must be free of dust and loose materials. Before the application, thoroughly soak the substrate or prime

### CLEANING

Clean all tools with water, immediately after use.



pic. 1



pic. 2