

DS-247



**Rapid set repair mortar with corrosion inhibitor,
for thicknesses of up to 4cm/coat**



■ PROPERTIES

Multi purpose fiber-reinforced and resin fortified sealing mortar. Its formula contains corrosion inhibitor that protects against concrete rebar oxidation. It presents powerful adhesion, frost resistance, negligible moisture absorption and 50% greater strength than concrete.

Classified PCC R4 as concrete repair product, per EN 1504-3.

■ ADVANTAGES

- Rapid strength development (within the first 24 hours)
- Exceptional workability and finish surface
- Negligible shrinkage
- Does not contain chlorides that cause corrosion
- Highly thixotropic
- Does not sag when applied to thicknesses of up to 4cm
- Resistant to the effect of sulfates
- Does not require any kind of improving additives
- High mechanical strengths

- Minimum application waiting between overlapping coats
- Ideal for all applications where work speed is required or the quick turnover of a building project is necessary
- Suitable for low temperature repairs (above +5°C).

■ APPLICATIONS

DS-247 of DUROSTICK is ideal for highly demanding repairs of concrete elements and structures in rapid time (columns, beams, slabs, balcony edges and fascias, pools, storage tanks, load bearing walls etc). It seals gaps and honeycombs in concrete, as well as any construction defects on edges and corners. It restores damage and seals cracks on industrial floor surfaces indoors, but also loading ramps. In most applications, it replaces epoxy repair putties.

■ USE

1. Surface preparation

The substrates must be free of any oils, loose sections; dust they must be sound and soaked, without any standing water.

The technical specifications and directions of use contained in this technical data sheet are the results of the knowledge and experience of the company's research and development department, as well as from the real-life applications of the product. The recommendations and suggestions regarding the use of the products are made without guarantee since the respective conditions during their application are beyond the control of the company. For this reason, it is the user's responsibility to make sure that the product is suitable for the intended application as well as the application conditions of the project.

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Concrete walls: Remove any formwork wood ties, polystyrene and pointy protrusions. Cut the tie rods 2-3cm deep and seal the holes using DS-247 of DUROSTICK.

2. Application

Empty DS-247 into a clean container with cool water, at a ratio of 1kg mortar to 210ml of water (1.05-1.10lt to 5kg). Mix using a low-rpm electric mixer with the proper mixing attachment or a metallic trowel until a lump free, homogeneous mixture is created. Apply the mortar by pressing it with a gauging trowel or a steel trowel. The finish surface can be smoothed further by using a wet plaster float, a taping knife or No60 sandpaper, always depending on the application and desired finish.

■ CLEANING

Clean all tools with water, immediately after use. Otherwise, cleaning is performed only by mechanical means.

■ CONSUMPTION

Approximately 16kg/m²/cm thick coat or 1.6kg DS-247 for filling 1lt of volume.

■ STORAGE

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

■ SAFETY DIRECTIONS

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

■ PACKAGING

Carton box with 15 pcs of 1kg each one
Carton box with 4 bags of 5kg each one

TECHNICAL SPECIFICATIONS

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

■ Form - Color	Cementitious mortar - Gray
■ Bulk density of dry mortar	1.15±0.10kg/lt
■ Bulk density of fresh mortar	1.70±0.10kg/lt
■ Maximum grain size	0.6mm
■ Application temperature	From +5°C to +35°C
■ Temperature resistance	From -30°C to +80°C
■ Water requirement	210ml water in 1kg mortar 1.05lt water in 5kg mortar
■ Pot life	1 hour
■ Maximum application thickness in one coat	4cm
■ Minimum application thickness in one coat	1mm
■ Chloride ion content, per EN 1015-17	≤ 0.008%

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PRODUCT PERFORMANCES	
■ Resistance to flexion, per EN 12190, to:	
• 28 days	≥ 8.00 N/mm ²
■ Compression resistance , per EN 12190, to:	
• 8 hours	≥ 4.00 N/mm ²
• 24 hours	≥ 10.00 N/mm ²
• 7 days	≥ 30.00 N/mm ²
• 28 days	≥ 50.00 N/mm ²
■ Adhesion to concrete per EN 1542	≥ 2.00 N/mm ²
■ Elastic modulus per EN 13412	≥ 22 GPa
■ Resistance to carbonation per EN 13295	Yes
■ Thermal compatibility expressed as adhesion to concrete, per EN 13687, after:	
• 50 freeze-thaw cycles	≥ 2.00 N/mm ²
• 30 storm cycles	
• 30 dry heat cycles	
■ Capillary water absorption, per EN 13057	$w \leq 0,30 \text{kg} \cdot \text{m}^{-2} \cdot \text{h}^{-0,5}$
■ Reaction to fire	Class A1

Where 1 N/mm²=1MPa

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