

# DS-245 POWER MORTAR RAPID



Thixotropic and fiber-reinforced, rapid set repair mortar, for thicknesses of up to 4cm/coat



## ■ PROPERTIES

High strength fiber-reinforced repair mortar of controlled shrinkage. The product is fortified with stainless microspheres and selected aggregates. Suitable for rapid set concrete repairs that require high strength.

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
- Does not contain chlorides that cause corrosion
- Highly thixotropic
- Sulfur resistant
- High mechanical strengths

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

## ■ APPLICATIONS

DS-245 POWER MORTAR RAPID is ideal for quick repairs of deteriorated balcony fascias and roof repairs.

It restores any construction defect after concrete pouring, such as honeycombs, rod holes, etc. Effective for any repair of horizontal or vertical concrete surfaces that has been damaged by abrasion, impact or carbonation.

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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for thicknesses of up to 4cm/coat**

## ■ USE

### 1. Surface preparation

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

### 2. Application

Empty 25kg mortar to 4.25-4.5lt of water (0.85-0.90lt for 5kg). Mix using a low-rpm electric mixer with the proper mixing attachment, until a lump free, homogeneous mixture is created. Apply the mortar by either pressing it with a gauging trowel or by using an injection machine, in thicknesses of up to 4cm thick per coat. Where necessary, a second coat is applied before the previous one has fully cured, within 2-3 hours at 20°C. In any other case, the previous coat must be roughened by mechanical means (chisel, chipping gun etc.).

## ■ NOTES

- When the steel reinforcement (rebar) is corroded, remove all 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
- Its pot life is significantly reduced at temperatures higher than 28°C
- 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 48 hours (especially in the summer months).

## ■ CLEANING

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

## ■ CONSUMPTION

Approximately 18kg/m<sup>2</sup>/cm thick coat.

## ■ 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 4 bags of 5kg each one on 720kg pallet  
Paper bag of 25kg on 1.200kg pallet

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TECHNICAL SPECIFICATIONS (Measurement conditions 20°C and 50% R.H.)	
■ Form - Color	Cementitious mortar - Gray
■ Bulk density of dry mortar	1.50±0.10kg/lt
■ Bulk density of fresh mortar	2.20±0.10kg/lt
■ Maximum grain size	1.8mm
■ Application temperature	From +5°C to +35°C
■ Temperature resistance	From -20°C to +80°C
■ Water requirement	4.25lt water for 25kg mortar
■ Pot life	Approximately one hour
■ Maximum application thickness per coat	4cm
■ Minimum application thickness per coat	5mm
■ Chloride ion content, per EN 1015-17	≤ 0.008%

PRODUCT PERFORMANCES	
■ Resistance to flexion per EN 12190, to:	
• 28 days	≥ 9.00 N/mm <sup>2</sup>
■ Compression resistance per EN 12190, to:	
• 8 hours	≥ 8.00 N/mm <sup>2</sup>
• 24 hours	≥ 25.00 N/mm <sup>2</sup>
• 7 days	≥ 40.00 N/mm <sup>2</sup>
• 28 days	≥ 50.00 N/mm <sup>2</sup>
■ Adhesion to concrete per EN 1542	≥ 2.20 N/mm <sup>2</sup>
■ Elastic modulus per EN 13412	≥ 22 GPa
■ Resistance to carbonation	Yes
■ Thermal compatibility expressed as adhesion to concrete, per EN 13687, after:	
• 50 freeze-thaw cycles	≥ 2.00 N/mm <sup>2</sup>
• 30 storm cycles	
• 30 dry heat cycles	
■ Capillary water absorption, per EN 13057	w ≤ 0.25kg·m <sup>-2</sup> ·h <sup>-0.5</sup>
■ Reaction to fire	Class A1

Where 1 N/mm<sup>2</sup>=1MPa

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