

DS-244 POWER MORTAR RESIN



Thixotropic, resinous and fiber-reinforced repair mortar, for thicknesses of up to 6cm/coat



■ PROPERTIES

High-strength, fiber-reinforced, and resinous repair cementitious mortar. Contains metallic microspheres, synthetic resins, special additives, and silica fume. Suitable for concrete repairs that require high strength.

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

■ ADVANTAGES

- Exceptional adhesion to the substrate
- Volume stability
- Does not shrink
- Minimizes the risk of crack formation
- Highly thixotropic with outstanding workability
- Does not sag, even when it is applied to 6cm thick coats
- Resistant to moisture absorption

- Highly durable against intense temperature variations
- Does not require any improving additives
- Does not contain chlorides that cause corrosion
- Quick and easy application and finishing to impressive results
- Effective repair product for damaged concrete in building, bridge, and infrastructure applications.

■ APPLICATIONS

DS-244 POWER MORTAR RESIN is applied on horizontal and vertical surfaces, even on concrete roofs, without the need for any formwork (up to 6cm per coat).

Restores all construction imperfections of concrete elements.

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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■ USE

1. Surface preparation

Application surfaces have to be free of oils, loose materials, dust and they have to be sound. Soak the surfaces before application, without pooling any water on them.

2. Application

Empty DS-244 POWER MORTAR RESIN in a clean container with cool water, at a ratio of 25kg mortar to 4.0-4.25lt of water. 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 6cm thick per coat. Where necessary, a second coat is applied before the previous one has fully cured, within 4-5 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 the rust with RUST REMOVER, rinse thoroughly and once dry, apply DUROSTICK RUST FREE POWDER, the cementitious corrosion inhibitor for rebar protection
- Curing time increases when the working temperature is low and decreases when it is higher
- 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 during the summer months).

■ CLEANING

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

■ CONSUMPTION

Approximately 18kg/m²/cm thick coat.

■ STORAGE

25kg Paper bag with valve: 12 months from production date.

5kg Plastic bag: 18 months from production date. Store in the factory sealed packages, in dry and shaded places.

■ 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	4.0lt water per 25kg mortar
■ Pot life	2 hours
■ Maximum application thickness per coat	6cm
■ Minimum application thickness per coat	5mm
■ Chloride ion content per EN 1015-17	≤ 0.008%

PRODUCT PERFORMANCES	
■ Resistance to flexion per EN 12190, in:	
• 28 days	≥ 9.00 N/mm ²
■ Compression resistance per EN 12190, in:	
• 24 hours	≥ 30.00 N/mm ²
• 7 days	≥ 45.00 N/mm ²
• 28 days	≥ 60.00 N/mm ²
■ Adhesion to concrete per EN 1542	≥ 2.20 N/mm ²
■ Elastic modulus per EN 13412	≥ 25 GPa
■ Carbonation resistance per EN 13295	Yes
■ Thermal compatibility expressed as adhesion to concrete, per EN 13687, after:	
• 50 freeze-thaw cycles	≥ 2.40 N/mm ²
• 30 storm cycles	
• 30 dry heat cycles	
■ Capillary water absorption, per EN 13057	w ≤ 0.25kg·m ⁻² ·h ^{-0.5}
■ Reaction to fire	Class A1

NOTE: Where 1N/mm²=1MPa

Certified by the GEV institute in the top category EMICODE® label EC1 Plus given to products on the verge of technological innovation and extremely low percentage of volatile emissions. The product complies with the strictest environmental and health requirements.

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