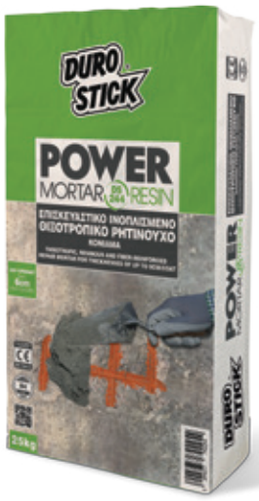
DS-244 POWER MORTAR RESIN

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



QUALITY CONTROLLED
CE
EN 1504- 3

ACCORDING TO EUROPEAN STANDARD
EN 1504-3
R4
DURO STICK

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 in 25kg mortar
Pot life	2 hours
Maximum application thickness per coat	6cm
Minimum application thickness per coat	5mm
Chlorides content, per EN 1015-17	< 0.05%

MECHANICAL STRENGTHS

Flexural strength, per EN 12190 after:	
• 28 days	≥ 9.00 N/mm^2
Compressive strength, per EN 12190 after:	
• 24 hours	≥ 30.0 N/mm^2
• 7 days	≥ 50.0 N/mm^2
• 28 days	≥ 60.0 N/mm^2
Adhesion to concrete, per EN 1542	≥ 2.00 N/mm^2
Modulus of elasticity, per EN 13412	≥ 25 GPa
Resistance to carbonation	Yes
Adhesion after 50 freeze-thaw cycles, per EN 13687-1	≥ 2.0 N/mm^2
Capillary water absorption	≤ 0.30kg.m^{2}h$^{0.5}$
Reaction to fire, per EN 13501-1	Euroclass A1

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 Material Safety Data Sheet.

PACKAGING

Carton box with 4 pcs of 5kg each one
Paper bag of 25kg on a 1.200kg pallet

PROPERTIES

High strength fiber-reinforced repair mortar. Contains stainless microspheres, synthetic resins, special additives, and silica fume. Suitable for concrete repairs that require high strength and durability.
Classified PCC R4 as concrete repair product, per EN 1504-3.

ADVANTAGES

- Exceptional adhesion to the substrate
- 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 damage
- 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. It restores all construction imperfections of concrete.

USE

1. Surface preparation

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

2. Application

Empty DS-244 in a clean container with cool water, at a ratio of 25kg mortar to 4.0-4.25lt of water (0.80-0.85lt 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 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 in the summer months)
- After its full cure, the product is harmless to health and the environment.

CLEANING

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

CONSUMPTION

Approximately 18kg/m^2/cm thick coat.