

DUPATCH MORTAR

Dual shrinkage compensated, thixotropic repair mortar

Description

Dupatch mortar is a dual shrinkage compensated, thixotropic high strength formulation for structural concrete repairs. Dupatch mortar is suitable for placing in thicknesses of 10mm to 50 mm both vertically and overhead. Dupatch mortar provides a durable, strong structural repair fully compatible with host

Uses

Dupatch mortar is the ideal material for vertical or horizontal structural repairs where the thickness of repair is more than 10 mm and use of hand or machine applied structural repair systems is required.

Typical applications are:

- Extensive repairs to beams, columns and other structural elements
- Repair of structural members

Advantages

1. One component, factory made only addition of water
2. Fast and easy placing - reduced time for repairs
3. No bonding agent required - simple installation
4. Impermeable to aggressive elements - long life repairs
5. Sprayable - able to repair complex profiles easily with minimal rebound
6. Dual shrinkage compensated - volume stable in wet and hardened state reducing cracking tendency

Technical Information

Appearance	Grey powder
Water powder ratio	1 to 12
Compressive strength (ASTM C109 7cm cube)	25 N/mm² 1 Day
	35 N/mm² 3 Days
	45 N/mm² 7 Days
	55 N/mm² 28 Days
Density	Approx .2250kg/m³

Mixing water per 25kg bag	Approx. 1.750 to 2.250 litres
Application Temperature substrate material	+5 to +40°C +5 to +30°C

■ Instruction

Surface preparation

All loose traces of concrete or mortar, dust, grease oil, etc. must be removed. Damaged or contaminated concrete shall be removed to obtain a keyed aggregate exposed surface. Non-impact/ vibrating cleaning, e.g. grit or high pressure water blasting are recommended. Cut the edges of the repair vertically depth of 5 mm. Clean all exposed reinforcement to a minimum grade of SA 2 according to ISO 8501-1 / ISO 2944-4. Ensure back of rebar is also clean. Where reinforcing bars are corroded, cut back the concrete to at least 25mm behind the reinforcing bars. Grit blast to remove corrosion products from around reinforcing bars and coat with Dubond's ZincRich primer to protect from corrosion.

■ Mixing

Only full bags are mixed. Damaged or opened bags should not be used. Mix Dupatch Mortar in a forced action pan mixer, or with a helical paddle attached to a low speed (300-600rpm) mixer for 3 minutes until a lump free, thixotropic consistency is achieved. Only use clean water. Mixing water needed: 1.750 to 2.250 litres per 25kg bag. Allow the mortar to rest for 2 - 3 minutes and then remix briefly before applying.

■ Priming Concrete

No special primer is required. To obtain extra strong bonding, the damp substrate can be primed with a slurry brush coat of Dupatch Mortar (2 parts powder to 1 part water).

■ Mortar application

The minimum temperatures must be maintained during application and for at least 24 hours thereafter for optimum curing of the product. The prepared substrate should be pre-soaked, preferably for 24 hours, but at least 2 hours before applying Dupatch Mortar. The surface must be saturated surface dry, but without standing water. Dupatch Mortar can be spray- or hand-applied. Apply mixed product directly to the prepared damp substrate, or wet on wet onto the primed surface. Spraying the material with the necessary pressure will ensure good adhesion of the material. A thin scrape coat or contact layer before building up to the required thickness, wet on wet, will improve adhesion especially in case of hand application. Apply to the desired layer thickness of 10 to 60 mm max and level using a screeding bar, trowel or wooden board. Can be applied in thicker layers in smaller patches or where additional reinforcement is present. Smoothing with a trowel or finishing by float or sponge can be done as soon as the mortar has begun to stiffen.

■ Protective Coating

Protective coatings of anti carbonation Should be applied as recommended.

■ Curing

DupatchMortar should be cured with clear polythene sheeting over wet hessian

■ Packaging

DupatchMortar is available in 25kg bags.

■ Shelf Life

DupatchMortar has a shelf life of 6 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall



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