REPOSTRUCT 40

HIGH-PERFORMANCE, POLYMER MODIFIED, FIBRE REINFORCED REPAIR MORTAR

hahne RepoStruct 40 is a one-component, pre-batched, polymer modified, shrinkage-compensated, fibre-reinforced repair mortar. Designed for both pourable and spray applications, it offers superior mechanical strength, low permeability, and excellent bond with old concrete. It is ideal for structural and large-volume repairs requiring thicknesses of 10 mm to 50 mm in vertical or overhead sections.

PRODUCT INFORMATION

Area of Applications

- Restoration of damaged or spalled structural concrete
- Jacketing and rebuilding of columns, beams, and walls
- Repair of fire-damaged and chloride-affected concrete
- Large-area reinstatement of industrial and marine structures
- Micro-concrete infill behind shuttering where vibration is difficult

Features and Benefits

- High compressive strength with early strength gain
- Low rebound and excellent pumpability
- Shrinkage controlled for crack-free repairs
- Excellent bond to concrete and reinforcement
- Chloride-free and non-corrosive
- Compatible with HAHNE protective coatings and waterproofing systems

Yield

Approx. 13 litres per 25 kg bag at recommended water dosage.

(Allow for wastage based on site conditions)

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TECHNICAL SPECIFICATIONS

Property	Test Method	Result
Water : Powder Ratio	-	0.15 – 0.16
Fresh Wet Density	ASTM C138	2.20 ± 0.05 g/cc
Compressive Strength	ASTM C109	>20 MPa @ 1 Day ≥45 MPa @ 28 Days
Flexural Strength	ASTM C348	≥ 7 N/mm² @ 28 Days
Drying Shrinkage	ASTM C157	< 800 microstrain @ 28 Days
Adhesion Bond Strength	EN 1015-12	> 2.0 N/mm²
Maximum Aggregate Size	-	1 mm
Pot Life	@ 27°C	~ 30 minutes
Application Thickness	-	10 mm – 200 mm (in layers)

APPLICATION PROCEDURE

Surface Preparation

- All loose, damaged, and weak concrete must be removed by appropriate method.
- The substrate must be sound, clean, and free from oil, dust, or laitance.
- Pre-wet the surface to a saturated surface dry (SSD) condition before applying the product.

Mixing

- Pour approximately 80% of the recommended clean water into a mechanical mixer.
- Gradually add **hahne ReposSruct 40** while mixing continuously.
- Add the remaining water to achieve a smooth, homogenous mix.
- Mix for 3–5 minutes until a lump-free consistency is obtained.
- Do not add extra water or re-temper once mixed.

Placing

- The product can be poured, trowelled, or sprayed depending on the repair requirement.
- Ensure full compaction and avoid air entrapment.
- For overhead or vertical applications, apply in layers not exceeding 20 mm thickness at a time.

Curing

- Immediately after finishing, protect the applied surface from rapid drying using curing compound or by covering with wet hessian and polyethylene sheets for at least 7 days.

Registered Office: 56, Siddhi Industrial Infra Park, Waghodia 391760, Dist. Vadodara, Gujarat India
For more information, please contact us at info@hahne.in

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PACKAGING, STORAGE AND SAFETY

Packaging

- **hahne RepoStruct 40** is available in 25 kg moisture-resistant bags.

Storage and Shelf Life

- Store the adhesive in a cool, dry place, away from direct sunlight and moisture, to maintain its quality.
- The shelf life of the product is 6 months if stored in its original sealed packaging.

Safety Instructions

- Contains Portland cement and is alkaline in nature.
- May irritate eyes and skin.
- Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water. Do not ingest.
- Avoid breathing dust. Wear a respirator in dusty areas.
- Non-toxic and non-flammable.

DISCLAIMER: The information and application guidelines provided by the company and its representatives are intended solely as a general reference. Users are strongly encouraged to conduct their own tests and trials to verify the product's suitability for their specific requirements before proceeding with full-scale use. As the identification of underlying issues, the quality of other materials and the workmanship on-site are beyond our control, we cannot offer any express or implied guarantees regarding the results. The company disclaims any liability for damages or unsatisfactory outcomes that may arise from the use of our products.