



HYDROBLOC
BUILT ON PERFORMANCE

HYDROBLOC CRYSTAREP

1

Structural Crystalline Waterproof Repair Mortar

Product Description:

HYDROBLOC CRYSTAREP is a polymer-modified crystalline waterproof repair mortar designed for structural repairs, pile-to-raft coving, honeycomb repairs, waterproof detailing, and hydrostatic pressure resistance applications. It combines crystalline waterproofing, CSH densification, hydrophobic technology, fiber reinforcement, and shrinkage-controlled cement chemistry to provide a durable, load-bearing, low-permeability repair system.

Key Features & Benefits:

- Crystalline waterproofing action
- Excellent hydrostatic pressure resistance
- Structural load-bearing performance
- Low permeability
- Excellent adhesion to concrete
- Reduced shrinkage and cracking
- Fiber reinforced
- Suitable for positive and negative waterproofing
- Dense CSH matrix formation
- Improved durability and reduced water absorption

Areas Of Application:

- Pile-to-raft coving
- Waterproof fillet formation
- Structural waterproof repairs
- Honeycomb and void repairs
- Construction joint treatment
- Pipe penetration sealing
- Lift pits and basements
- Water retaining structures
- Retaining walls, tunnels, and sewage structures

Surface Preparation:

Substrates must be structurally sound, clean, and free from dust, oil, grease, laitance, curing compounds, and loose particles. Concrete surfaces should be mechanically roughened and pre-soaked to Saturated Surface Dry (SSD) condition before application.

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Mixing Instructions:

Add 2.6–2.9 litres of clean water per 25 kg bag. Mix using a slow-speed drill mixer for 3–5 minutes, allow to stand for 2 minutes, then remix briefly before application. Do not overwater..

Application Guidelines:

Apply firmly using a trowel and compact thoroughly to eliminate voids. For repair applications, compact material into the repair area and build thickness progressively for deep repairs where required.

Coverage/ Consumption:

Thickness	Coverage per 25 kg
6 mm	2.8–3.0 m ²
10 mm	1.7–1.8 m ²
25 mm	0.70–0.75 m ²
50 mm	0.35–0.38 m ²

Curing & Protection:

Protect from rapid drying, direct sunlight, and strong winds. Cure using light water misting, damp hessian, or suitable curing membranes for a minimum of 3–5 days.

Packaging:

25 kg moisture-resistant bags.

Storage & Shelf life:

Store in dry conditions in unopened original packaging away from moisture and direct sunlight. Shelf life is 12 months when stored properly.

Health & Safety:

Contains cementitious materials. Avoid inhalation of dust. Wear gloves, eye protection, and protective clothing. In case of eye contact, rinse immediately with clean water. Refer to the SDS for complete safety information.



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Technical Data:

Property	Value
Appearance	Grey Powder
Binder Type	Polymer Modified Cementitious Crystalline Mortar
Density (Powder)	1.45–1.60 g/cm ³
Mixed Density	2.00–2.10 g/cm ³
Pot Life @ 25°C	25–40 Minutes
Initial Set	2–4 Hours
Final Set	4–6 Hours
Application Thickness	10–75 mm
Water Addition	2.6–2.9 L / 25 kg
Compressive Strength (28 Days)	50–60 MPa
Bond Strength	>1.8 MPa
Hydrostatic Resistance	Excellent
Water Permeability	Extremely Low
Shrinkage	Low
Crack Resistance	Very Good
VOC Content	Nil
Colour	Grey