



HYDROBLOC
BUILT ON PERFORMANCE

HYDROBLOC-RM10

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High-Performance Reprofilng & Repair Mortar

Product Description:

HYDROBLOC-RM10 is a single-component, polymer-modified, fiber-reinforced cementitious repair mortar specially formulated for reprofiling, patching, and surface levelling of concrete substrates. With superior adhesion, low shrinkage, and high early strength, it is ideal for preparing concrete surfaces prior to the application of cementitious waterproofing systems such as HYDROBLOC-UL or HYDROBLOC Crystacoat.

It is designed to match and exceed the performance of EN 1504-3, Class R4 repair mortars.

Key Features & Benefits:

- **R4-Class Structural Repair Mortar** – For concrete repairs and reprofiling
- **Low Shrinkage** – Reduces risk of cracking and delamination
- **Excellent Bond Strength** – No need for bonding agents on prepared SSD substrates
- **Overhead & Vertical Application** – Thixotropic and slump-resistant
- **Waterproofing Compatible** – Optimized for use under cementitious membranes
- **Resistant to Carbonation & Freeze-Thaw Cycles**
- **Easy to Apply** – Manual or machine application

Applications:

- Surface repair of honeycombed or damaged concrete
- Reprofilng walls, columns, beams, and overhead soffits
- Levelling surfaces prior to application of waterproof coatings
- Repair of substrate imperfections before tiling or rendering
- Bridges, tunnels, retaining walls, and other civil structures

Surface Preparation:

- Substrate must be clean, roughened, and SSD (saturated surface dry)
- Remove all laitance, oil, dust, or contaminants
- Saw-cut edges of repair area to avoid featheredging

Application Guidelines:

- Mix using a slow-speed mixer to a lump-free, smooth paste
- Apply with a steel trowel or spray machine
- Buildup in layers if thickness exceeds 10 mm
- Finish surface with trowel, sponge, or float as required
- Cure for at least 24 hours under moist conditions

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PATSA
Protective Solution

TECHNICAL DATA SHEET





HYDROBLOC-RM10

Packaging:

- **Powder:** 25 kg bag
- **Coverage:** Approx. 3.5 – 4.5 kg/m² for 2 mm thickness (depending on substrate)

Compliance:

- EN 1504-3: Class R4 (Structural Repair Mortar)
- Meets requirements for structural concrete repair in civil works

Storage & Shelf Life:

- Store in dry, covered conditions
- Shelf Life is 9–12 months (in original sealed packaging)

Health & Safety:

Contains cement. Avoid inhalation and contact with skin or eyes. Wear protective gear during mixing and application. Refer to SDS (Safety Data Sheet) for full precautions.

[Refer to Safety Data Sheet \(SDS\) for full handling instructions.](#)

Technical Data

Property Value	-
Appearance	Grey powder
Consistency	Thixotropic paste
Mix Ratio (A: B)	5:1 (approx. 25 kg powder: 5 L water)
Application Thickness	3 mm – 10 mm (per layer)
Compressive Strength	≥ 45 MPa (28 days)
Flexural Strength	≥ 8 MPa
Adhesion to Concrete	≥ 2.0 MPa (pull-off)
Modulus of Elasticity	≥ 20 GPa
Capillary Absorption	< 0.5 kg/m ² ·h ^{0.5}
Chloride Content	< 0.05%
Carbonation Resistance	Pass (per EN 13295)
Classification	R4 (per EN 1504-3)
Re-coatable with Waterproofing	After 24–48 hours
Pot Life	~60 minutes at 25°C
Application Temperature	+5°C to +35°C

