



HYDROBLOC

BUILT ON PERFORMANCE

HYDROBLOC-SF

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2-Component Semi-Flexible Cementitious Waterproofing Coating. Surface-Applied | Positive-Side Protection

Product Description:

HYDROBLOC-SF is a two-component, polymer-modified cementitious coating developed for positive-side waterproofing of concrete and masonry structures. When applied to sound, prepared surfaces, it forms a semi-flexible, seamless membrane that resists water pressure, weathering, and chemical exposure.

Key Features & Benefits:

- Positive side waterproofing up to 5 bar
- Excellent adhesion to concrete and masonry
- Vapor-permeable yet water-tight
- Resistant to mild chemicals, weather, and aging
- Polymer-enhanced for superior flexural strength
- Application via brush, spray, or trowel
- Compatible with tile adhesives and surface finishes
- Non-toxic, solvent-free formulation

Application Areas:

- Retaining walls (positive side)
- Water tanks, STPs, and reservoirs
- Podium decks, balconies, and terraces
- Lift pits, wet areas, and roof slabs
- Tiled substrates (as protective base layer)
- Protective coating over cement renders or screeds

Surface Preparation:

1. Clean substrate of dust, oil, laitance, and contaminants.
2. Remove loose particles by wire brushing, water jetting, or mechanical grinding.
3. Substrate should be sound, moisture-tolerant, and SSD (Saturated Surface Dry).
4. Roughen smooth concrete (minimum CSP 3–4).
5. Apply HYDROBLOC-Universal Sealer or cementitious scratch coat if the surface is highly absorbent or uneven.



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Mixing Instructions:

- Pour the liquid component into a clean mixing bucket.
- Gradually add the powder while mixing with a low-speed drill (400–600 rpm).
- Mix for 2–3 minutes to a lump-free, smooth slurry.
- Let the mix rest for 2 minutes, then remix briefly.
- Do not retemper after pot life is exceeded.

Application Guidelines:

- Apply with a stiff brush, roller, spray machine, or steel trowel.
- Apply first coat at 1.0 mm thick; allow to set (~4–6 hrs).
- Apply second coat perpendicular to the first.
- Avoid coating in extreme heat, frost, or rain exposure.
- Protect for at least 48 hours using wet curing methods.

Coverage:

- **Standard Waterproofing (2 coats):** 2 – 3 kg/m² total
- **Pressure water prone zones (3 to 4 coats):** 3.5 – 5.0 kg/m² total

Note: Actual consumption may vary depending on substrate roughness and porosity.

Curing & Protection:

- Light mist-curing for 2 days recommended in hot/dry conditions.
- Protect from direct sunlight, wind, frost, and waterlogging.
- Do not subject to load or finish layers until coating is fully cured (~3–5 days).

Packaging:

Powder: 24Kg multi-layered bag

Liquid : 6 Kg plastic container

Storage & Shelf life:

Powder: 6 months in dry storage

Liquid : 12 months in frost-free environment

Health & Safety:

- Contains cement and polymer modifiers — may cause irritation.
- Use gloves, goggles, and mask during mixing and application.
- Refer to SDS for complete safety instructions.
- Keep out of reach of children. Non-flammable. Zero VOC.



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Compliance:

Complies with EN 1504-2 for surface protection. Compatible with adhesives for tiling, screeds, and toppings. Passes positive-side pressure resistance up to 5 bar. Suitable for non-structural movement zones.

Technical Data

Property	Value
Type	2-component cementitious coating
Appearance	Powder (grey), Liquid (white)
Mix ratio (by weight)	4:1 (Powder : Liquid)
Density of mixed product	~2.0 kg/L
Pot Life at 25 °C	~45 minutes
Adhesion to Concrete (ASTM D4541)	≥ 1.0 MPa
Water Permeability (EN 12390-8)	Resists ≥ 5 bar (positive side)
Crack Bridging (ASTM C836)	Up to 0.4 mm
Flexural Strength (28 days)	~10 N/mm ²
Compressive Strength (28 days)	~40 N/mm ²
Elongation	~10%
Shore D Hardness	~80

