BOSFIX CHEMICALS

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BOSFIX HY SEAL 004 WATERPROOFING MEMBRANE

TWO-COMPONENT, ACRYLIC-MODIFIED CEMENTITIOUS WATERPROOFING COATING

BOSFIX HY SEAL 004 is a high-performance, two-component acrylic polymer-modified cementitious slurry coating engineered for structural waterproofing and concrete protection. Combining high-grade Portland cement, graded silica aggregates, and active chemical additives with a specialized synthetic polymer latex, BOSFIX HY SEAL 004 forms a tough, seamless, and flexible membrane that bonds tenaciously to concrete, masonry, and screed substrates.

TYPICAL APPLICATIONS

- Water tanks, reservoirs & potable water structures
- Basement retaining walls, pits & elevator shafts
- Wet areas: Bathrooms, kitchens, balconies & podiums
- Swimming pools, fountains & water features
- Foundations, footings & underground structures

KEY FEATURES & ADVANTAGES

- **High Hydrostatic Resistance:** Withstands positive & negative pressure.
- **Non-Toxic & Potable Safe:** Approved for drinking water contact.
- **Damp Substrate Adhesion:** Excellent bond to damp concrete.
- **Crack-Bridging:** Accommodates thermal micro-movements.
- **Breathable Membrane:** Allows water vapor transmission.

1. TECHNICAL PROPERTIES & PERFORMANCE SPECIFICATIONS

PROPERTY / PARAMETER	TEST STANDARD	SPECIFICATION / VALUE
Chemical Base	Internal	Cementitious Powder (Comp A) + Acrylic Latex (Comp B)
Mixed Density (+25°C)	ASTM D1475	**1.80 – 2.00 g/cm³**
Mixing Ratio (by Weight)	Site Mix	Powder : Liquid = 2 : 1 (or per pack specification)
Tensile Strength	ASTM D412	> 1.50 N/mm² (28 Days)
Adhesion Strength to Concrete	ASTM D4541	**> 1.50 N/mm²** (Concrete Failure)
Hydrostatic Pressure Resistance	DIN 1048	> 5.0 Bar (Positive & Negative Head)
Crack-Bridging Ability	EN 1062-7	Bridges micro-cracks up to 1.0 mm
Pot Life (+25°C)	Internal	45 – 60 minutes
Touch Dry Time (+25°C)	ASTM D1640	2 – 3 hours
Full Mechanical & Water Cure	Internal	7 Days

2. SYSTEM BUILD & COVERAGE GUIDELINES

APPLICATION DOMAIN	RECOMMENDED COATS	TARGET DFT	THEORETICAL CONSUMPTION
Light Damp-Proofing (Bathrooms / Wet Areas)	2 Crosswise Coats	~1.0 mm	1.5 – 1.8 kg / m² (Total)
High Pressure (Water Tanks / Basements)	2–3 Coats + Mesh	~1.5 – 2.0 mm	2.0 – 2.5 kg / m² (Total)

3. APPLICATION INSTRUCTIONS

3.1 Surface Preparation: Substrates must be sound, structurally clean, and free from oil, grease, curing compounds, laitance, or loose particles. Pre-wet concrete thoroughly to achieve a Saturated Surface Dry (SSD) condition. Do not leave standing water.

3.2 Mixing: Pour Liquid Component B into a clean mixing container. Slowly add Powder Component A while mixing continuously with a slow-speed heavy-duty drill (400–600 RPM) fitted with a spiral paddle. Mix thoroughly for 3–5 minutes until a smooth, lump-free slurry is achieved.

3.3 Application Method: Apply BOSFIX HY SEAL 004 using a stiff bristle brush, roller, or trowel. Apply the first coat at uniform thickness. Allow to dry for 4–8 hours, then apply the second coat crosswise (at 90 degrees to the first coat) to ensure complete pinhole-free coverage.

CURING & WEATHER PROTECTION: Protect fresh applications from direct sunlight, rain, and strong wind for at least 24 hours. Damp cure wet-tank applications for 3 days before full water immersion filling.

4. PACKAGING, STORAGE & HEALTH SAFETY

PACKAGING & SHELF LIFE

Pack Size: 20 kg & 30 kg Composite Kits (Powder + Liquid).

Shelf Life: 12 months in unopened original containers.

Storage: Store off ground in dry, shaded conditions between +5°C and +35°C.

SAFETY & HANDLING

Safety: Cementitious base. Wear protective gloves, safety glasses, and dust mask during mixing.

First Aid: Wash skin thoroughly. Flush eyes with clean water for 15 mins if contact occurs.

DISCLAIMER: The information and recommendations contained in this Technical Data Sheet are based on our current knowledge, laboratory testing, and practical field experience. Since conditions of use and substrate characteristics are beyond our control, BOSFIX CHEMICALS does not guarantee final performance or accept liability arising from incorrect application or unapproved site conditions.
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