



HYDROBLOC T4

Premium Polymer Modified Flexible Tile Adhesive

Classification: C2TES1 / C2TES2

Product Description:

Hydrobloc T4 is a high-performance, single-component, polymer-modified cementitious tile adhesive. It is specifically formulated for demanding installations of porcelain, vitrified, ceramic, mosaic, natural stone, and large-format tiles in residential, commercial, and industrial settings — both interior and exterior.

Key Technologies: High-performance polymer system + microsilica + Hydrobloc Addiflex CSH enhancement package.

Key Features & Benefits:

- Single-component, just add clean water
- High bond strength
- Excellent adhesion to porcelain and vitrified tiles
- Suitable for large-format tiles
- Extended open time
- Reduced slip performance
- Enhanced flexibility
- Suitable for wet areas and swimming pools
- Resistant to thermal cycling
- Suitable for underfloor heating systems
- Reduced shrinkage
- Interior and exterior use

Areas Of Application:

HYDROBLOC T4 is recommended for fixing porcelain, vitrified, ceramic, mosaic, quarry tiles, granite, marble, natural stone and engineered stone

Category	Typical Areas / Uses
Residential	Bathrooms, kitchens, balconies, terraces, roof decks, swimming pools and water tanks
Commercial	Shopping malls, airports, hotels, hospitals, restaurants and commercial kitchens
Industrial	Warehouses, food processing facilities, laboratories and utility buildings
Special Applications	Large-format tiles, tile-over-tile, facades, underfloor heating, wet areas and damp environments



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Surface Preparation:

All substrates must be structurally sound, clean and free from dust, grease, oil, laitance, curing compounds, paint, loose particles and other contaminants.

Repair cracks, defects and uneven surfaces before application. Cementitious substrates should be fully cured and stable. Highly absorbent substrates should be pre-dampened or primed where required. Existing tiles must be firmly bonded, cleaned, roughened and primed if needed. Suitable substrates include concrete, cement-sand screeds, cement renders, cementitious waterproofing systems, existing ceramic tiles, cement boards, fibre cement boards, gypsum boards in interior dry areas only and AAC blocks with suitable render.

Mixing Instructions:

Use approximately 6.5 – 7.5 litres of clean water per 25 kg bag.

Add measured clean water into a mixing container, slowly add HYDROBLOC T4 powder while mixing continuously, and mix with a low-speed mechanical mixer at 300–600 rpm until a smooth, lump-free consistency is achieved. Allow the mix to stand for 3–5 minutes, then remix briefly before use.

Do not add cement, sand, lime or any other additives.

Application Guidelines:

Apply adhesive using a suitable notched trowel according to tile size and substrate condition. Comb adhesive in one direction to obtain uniform ridges.

Place tiles firmly and slide perpendicular to the adhesive ridges to ensure proper transfer. Fix tiles within the open time and periodically check adhesive coverage by lifting a tile.

Use back-buttering for large-format tiles, exterior areas, facades and wet areas. Ensure full adhesive coverage beneath tiles, especially in wet areas and heavy-duty applications.

Do not apply below +5°C, above +40°C, on frozen substrates or during conditions that may cause rapid drying.

Coverage/ Consumption:

Trowel Size	Value
6 mm	3.0 – 4.0 kg/m ²
8 mm	4.0 – 5.0 kg/m ²
10 mm	5.0 – 6.5 kg/m ²
12 mm	6.0 – 8.0 kg/m ²

Consumption may vary depending on substrate condition, tile size, trowel size and application method.



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Curing & Protection:

Protect freshly installed tiles from rain, frost, direct sunlight, vibration and premature loading during curing.

Activity	Recommended Time
Wall Grouting	8 – 12 hours
Light Foot Traffic	24 hours
Floor Grouting	24 hours
Heavy Traffic	48 – 72 hours
Water Immersion	7 days

Packaging:

25 kg multi-wall paper bags with moisture barrier liner.

Storage & Shelf life:

Shelf life is **12 months** from the date of manufacture when stored in unopened original packaging.

Store in a dry, shaded environment on pallets above ground level. Protect from moisture, direct sunlight and excessive humidity.

Health & Safety:

Contains cement and may cause skin or eye irritation. Wear protective gloves and eye protection, avoid inhalation of dust, wash thoroughly after handling and keep out of reach of children. Refer to the latest Safety Data Sheet for complete health and safety information.





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Technical Data:

Property	Typical Value
Classification	C2TES1 / C2TES2
Standard Compliance	EN 12004: C2, T, E / EN 12002: S1 / S2
Open Time	≥ 30 minutes
Slip Resistance	< 0.5 mm
Pot Life	3 – 4 hours
Tensile Adhesion Strength	> 1.5 MPa
Water Immersion Adhesion	> 1.0 MPa
Heat Ageing Adhesion	> 1.0 MPa
Freeze-Thaw Adhesion	> 1.0 MPa
Transverse Deformation	≥ 2.5 mm
Service Temperature	-20°C to +80°C
Application Temperature	+5°C to +40°C
Mixing Water	6.5 – 7.5 litres per 25 kg bag

Note: Values shown are typical laboratory results and may vary depending on substrate condition, installation practices and site conditions.

