HITi
Construction Revolution

2K1075
ELASTICSEAL

Technical
Data Sheet



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DESCRIPTION

HITI ELASTICSEAL 2K1075 is a highly flexible, two-component cementitious waterproofing mortar (EN 14891). It combines a polymer-based liquid component with a cementitious powder, enhanced with additives to improve both waterproofing and workability. This product is designed to resist salts and is suitable for a variety of interior and exterior applications.

Applications

- **Swimming Pools & Water Tanks:** Ideal for waterproofing swimming pools, water tanks, and basins.
- **Wet Areas:** Perfect for bathrooms, showers, and WCs before tiling.
- **Balconies & Terraces:** Recommended for use on balconies and terraces prior to laying ceramic tiles.
- **Underground Concrete Elements:** Effective for foundations, retaining walls, and basement walls.
- **Surface Compatibility:** Can be applied on concrete, plaster, and screed surfaces.

Key Properties

- **Waterproofing:** Provides reliable waterproofing before tiling or screed application.
- **Potable Water Safe:** Approved for use in contact with potable water tanks.
- **Bonding:** Excellent adhesion to all concrete and masonry surfaces.
- **Flexibility:** Highly flexible, accommodating structural movements.
- **Non-Corrosive:** Does not corrode steel and construction elements.
- **Application Versatility:** Suitable for both horizontal and vertical surfaces.
- **Carbonation Prevention:** Prevents carbonation in concrete.
- **Freeze-Thaw Resistance:** Resistant to freeze-thaw cycles.
- **Chloride Ion Resistance:** Highly resistant to chloride ions.
- **Application Method:** Easy to apply using a brush, roller, or trowel.

Substrate Preparation

- **Surface Condition:** Ensure substrates are dry, clean, and solid.
- **Removal of Contaminants:** Remove any substances that could prevent adhesion, such as dust, dirt, mold, oil, and paint.
- **Surface Integrity:** Clean and repair weak or damaged surfaces, including cracked plasters and moss residues.

- **Sunlight and Rain Protection:** Avoid application under direct sunlight and protect the applied surface from rain for at least 24 hours.
- **Repair Mortars:** Use HITI REPAIR R10 and R30 mortars to achieve a sound and flat surface.
- **Corner Treatment:** Round corners using HITI NORSTER P30.

Application Instructions

- **1. Mixing:** Pour 10 liters of the liquid component into a clean container. Gradually add 20 kg of the powder component and mix with a low-speed mixer (max. 500 rpm) for about 3 minutes until a homogeneous, lump-free mixture is achieved.
- **2. Maturation:** Allow the mixture to stand for 3 minutes to mature, then remix for 1 – 2 minutes before application.
- **3. Application:** Apply a thin first coat with a brush, roller, or trowel. After 5 – 6 hours, apply the second coat in the opposite (perpendicular) direction. Standard total thickness: 1.5 mm in two coats.

Post-Application Protection & Recommendations

- **Usage Time:** The product should be used within 2 hours (at 25 °C). Adverse climatic conditions such as high temperatures, low humidity, or strong winds can significantly reduce this time. Dispose of any mortar that has exceeded its pot life.
- **Surface Protection: HITI ELASTICSEAL 2K1075** must not be left exposed to direct sunlight; after application, cover the treated surface with screed or ceramic tiles. During the covering process, avoid mechanically damaging the waterproofing layer.
- **Curing Time:** Allow at least 7 days of curing under favorable climatic conditions before laying ceramic tiles on the **HITI ELASTICSEAL 2K1075** surface.
- **Water Tank Usage:** For waterproofing drinking water tanks, do not fill the tank until it has cured for 28 days. Rinse the tank several times with warm water before use.
- **Consumption:** 1.7 kg/m² per 1 mm thickness — 2.55 kg/m² at the 1.5 mm standard thickness; one 30 kg set covers approx. 11.8 m². Actual consumption may vary based on application conditions and surface properties.
- **Safety Precautions:** As the product contains cement, it may cause irritation to the eyes, respiratory system, and skin. Refer to the safety data sheet for detailed safety information.

Storage Instructions

- **Liquid Component:** Store between +5 °C and +23 °C in its original sealed packaging, away from direct sunlight.
- **Powder Component:** Keep in a dry, cool place between +5 °C and +35 °C, ensuring it remains free from moisture. Do not stack more than 10 bags high. Protect from water, frost, and adverse weather conditions.
- **Shelf Life:** Maximum shelf life is 12 months in the sealed original packaging under the specified storage conditions.

Packaging Details

- **Powder Component:** Supplied in 20 kg multi-ply Kraft paper bags (grey powder).
- **Liquid Component:** Supplied in 10-liter drums (white liquid).
- **Total Set Weight:** 30 kg

Property	Value
Classification	EN 14891
Appearance	1st Component: Grey powder 2nd Component: White liquid
Shelf Life	12 months when stored in original sealed packaging
Mixing Ratio	10 liters of liquid / 20 kg of powder
Application Temperature	+5 °C to +35 °C
Mixing	~3 minutes with max. 500 rpm mixer; rest 3 min; remix 1 – 2 min
Pot Life	2 hours / 25 °C
Standard thickness	1.5 mm total, in two coats
Consumption	1.7 kg/m² per 1 mm · 2.55 kg/m² at 1.5 mm · ≈ 11.8 m² per 30 kg set
Waiting Time Between Coats	5 – 6 hours (second coat in the opposite direction)
Before tiling	At least 7 days curing
Drinking-water tanks	Fill after 28 days curing; rinse several times with warm water
Density	1700 kg/m³
Crack Bridging (–20 °C, 50 % RH) (EN 14891)	0.75 mm
Crack Bridging (+23 °C, 50 % RH) (EN 14891)	2.5 mm
Temperature Resistance	(–15 °C to +80 °C)
Exposure	Must be covered with screed or tiles — not for direct sunlight exposure

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