HITi
Construction Revolution

CERAFLEX 1051

Technical Data Sheet



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DESCRIPTION

HITI CERAFLEX 1051 is a premium cementitious ceramic tile adhesive (EN 12004 class C1TE) designed for both floor and wall applications in **interior dry areas**. It features extended open time and reduced slip, making it ideal for a variety of tiling projects.

APPLICATIONS

- **Floor and Wall Tiling:** Suitable for bonding ceramic tiles, porcelain tiles, mosaic tiles, decorative bricks, and thin and large tiles to cementitious renders, screeds, and concrete.
- **Indoor uses:** For interior dry (non-wet) areas such as bedrooms, halls, living rooms, etc.
- **Not suitable for:** wet areas (bathrooms, showers, pools), exterior applications, marble or natural stone. For these, use HITI CERAFLEX 1054 or HITI POOLFLEX 1062.

Maximum tile size

	Maximum size
Wall	up to 60 × 60 cm
Floor	up to 120 × 60 cm

CHARACTERISTICS / ADVANTAGES

- **Excellent Adhesion:** Provides a strong bond for tiles, allowing installation from top to bottom.
- **Extended Open Time:** Offers ample time for tile placement without compromising adhesion.
- **Easy Application:** Features a trowelable consistency for smooth and efficient application.

SURFACE PREPARATION

- **Substrate Requirements:** Ensure substrates are sound, clean, and dry. Remove any oil, grease, or residue. Cementitious surfaces must be fully cured.
- **Surface Treatment:** Remove cracked plaster, mortar, and cement residues. Wet porous surfaces and allow them to dry before application.

Mixing

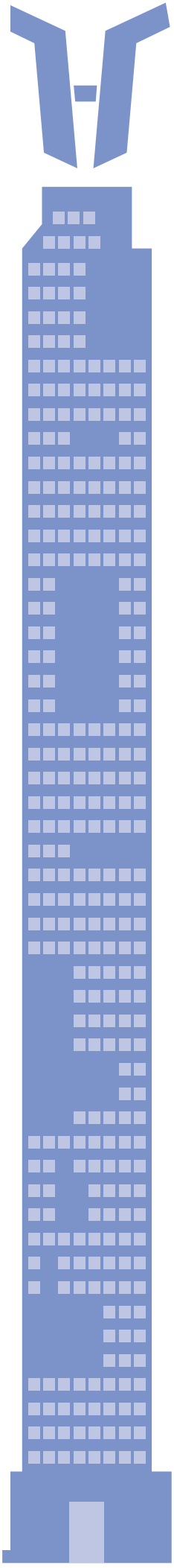
- **Mixing:** Pour the specified amount of clean water (6 – 7 L per 25 kg bag) into a container and slowly add **HITI CERAFLEX 1051**. Mix with a low-speed mixer until a smooth, lump-free paste is achieved. Avoid using additives not mentioned in the instructions. Allow the mixture to stand for 5 – 10 minutes to mature, then remix for 1 – 2 minutes before use. Pot life: 2 hours / 25 °C.
- **Tiling:** Spread the adhesive onto the substrate using a notched trowel appropriate for the tile size (6 – 12 mm). Standard application: 6 mm total thickness by double spreading (substrate and back of tile) with a 6 mm notched trowel; maximum thickness 12 mm. First, apply a thin coat with the flat side of the trowel, then use the toothed side to create grooves. The open time for the adhesive is 30 minutes. Install tiles within this period with firm pressure. Be aware that extreme weather conditions (high temperature, low humidity, wind) can shorten this period. Discard any adhesive that exceeds the open time.
- **Consumption:** approx. 8.6 kg/m² at the 6 mm standard thickness; approx. 4.3 kg/m² at 3 mm thickness.

Post-Application Protection & Suggestions

- **Cleaning:** Clean tools and hands with water. Use a damp cloth to wipe surfaces. Dispose of any mortar that has exceeded its pot life.
- **Tile Protection:** Tiles set with **HITI CERAFLEX 1051** should not be exposed to water for at least 24 hours. Protect the installation from frost and intense sunlight for 5 – 7 days after tiling.
- **Curing Times:** Grout at least 24 hours after tiling (walls and floors). Light foot traffic can resume on floors after 24 hours; full load after 14 days. Ensure the surface is shielded from drafts during and after application.
- **Weather Conditions:** Do not apply in rainy conditions. Protect the surface from rain for 24 hours post-application. Avoid direct sunlight on the mortar; in hot weather, mix with cold water. Application temperature range: +5 °C to +35 °C.
- **Health & Safety:** Contains cement, which can irritate the eyes, respiratory system, and skin. Consult the safety data sheet for more information.
- **Consumption:** The consumption values provided are average estimates and may vary based on application conditions and surface types.

Storage

- **Conditions:** Store in a dry, cool place between +5 °C and +35 °C. Keep away from moisture and direct sunlight.
- **Handling:** Protect from water, frost, and adverse weather conditions. Do not stack more than 10 bags high.
- **Shelf Life:** Up to 12 months when stored in the sealed original packaging under the specified conditions.



Packaging

- 25 kg bags

Technical Properties (at 22 °C)

General Data	Details
Classification	EN 12004 C1TE
Shelf Life	12 months when stored in the original sealed packaging in a dry place
Color	White, Grey
Packaging	25 kg bag
Application Data	
Application Temperature Range	+5 °C to +35 °C
Mixing Ratio	6 – 7 L water / 25 kg powder
Mix Density	1.8 g/cm³
Rest time after mixing	5 – 10 minutes, then remix 1 – 2 minutes
Pot Life	2 hours / 25 °C
Layer thickness	Standard: 6 mm (double spread, 6 mm notched trowel) Maximum: 12 mm
Notched trowel	6 – 12 mm, according to tile size
Grouting	At least 24 hours after tiling (wall and floor)
Light foot traffic	After 24 hours
Full load	After 14 days
Performance Data	
Consumption	~8.6 kg/m² at 6 mm standard thickness ~4.3 kg/m² at 3 mm thickness
Slip (EN 12004-2)	≤ 0.5 mm
Open Time (EN 12004-2)	30 minutes
Tensile Adhesion Strength (EN 12004-2)	
Initial	≥ 0.5 N/mm²
After Heat Exposure	≥ 0.5 N/mm²
After Immersion in Water	≥ 0.5 N/mm²
Service Temperature Range (after final cure)	0 °C to +80 °C