

ISOFIX 1051^{C1TE}

Product Data Sheet (TDS)

DESCRIPTION

ISOFIX 1051 is a polymer modified, cement-based ceramic tile adhesive. Easy to use as a thin bed tile adhesive, provides high initial and final adhesive strength, and excellent workability properties. ISOFIX 1051 has high bonding and thixotropic characteristics, so that it is suitable to be spread over vertical walls without sagging. Allows to apply it over larger areas, and fixes the tiles over applied areas without any adverse effects on the adhesion strength due to its extended open time feature.

USES

Bonding natural stone, quartz, earthenware, and all types of ceramic tiles, on concrete, cement based mortar, screed, and plaster substrates for exterior and interior applications such as balconies, terraces, bathrooms, kitchens, tile on tile in any of previous applications.

ADVANTAGES

- Highly workable and thixotropic consistency.
- Excellent adhesion to most substrates even in damp places.
- Excellent waterproofing features.
- Economic usage.
- Extended open time.
- Premixed, ready to use, just requires the addition of water

STANDARD

ISOFIX 1051 is an improved (1) slip resistant (T) cementitious adhesive (C) with extended open time (E) classified as as C1TE according to ISO 13007 and EN 12004 standards.



PRODUCT & TECHNICAL DATA

Consistency	Powder
Colour	White, Gray
Bulk density	1.82 g/cm ³
Mix Density	1.92 g/cm ³
Application Temperature Range	(+5 °C) – (+35 °C)
Service Temperature Range (after final cure)	(-40 °C) – (+80 °C)
Slip resistance (EN 12004-2)	≤ 0.5 mm
Tensile Adhesion Strength (EN 1348)	initial ≥ 0.5 N/mm ² after heat exposure ≥ 0.5 N/mm ² after immersion in water ≥ 0.5 N/mm ² after freeze/thaw cycles ≥ 0.5 N/mm ²
Open time (EN 12004-2)	≥ 30 minutes (tensile adhesion strength ≥ 0,5 N/mm ²)
Pop Life	~ 5 hours
Adjustability time	~ 15 minutes
Grouting	After: 8 Hours on wall / 24 Hours on floor Values determined based on laboratory conditions: 23 °C ± 2 °C, R.H. 50 % ± 5 %. Higher temperatures will reduce the indicated waiting time, and vice versa.
Ready for use	14 days
Mixing ratio	(24 – 25 %) of water
Layer thickness	10 mm max

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COVERAGE

Consumption is dependent on the substrate, surface profile, roughness, size of the tiles, the joints between them, and application technique. As a guide: Approx. 1.35 – 1.75 kg/m² per mm of thickness.

It is recommended to carry-out a test on site to calculate the exact consumption for the specific substrate conditions and proposed application.

APPLICATION PROCEDURE

Surface preparation

All substrates must be structurally sound, and provide a fixed and stable background able to support the weight of applied tiling.

Any surface defects and variations in level can be repaired using suitable repair mortars from ISO REPAIR range.

All surfaces must be clean, dry, and free from dust, oil, grease, paints, loose and friable particles, or contaminants such as dust, dirt, oil, or efflorescence.

Smooth surfaces must be reprofiled and roughened lightly to improve adhesion.

For applications in hot conditions, thoroughly pre-dampen the substrate and cool it down with water immediately before product application. Avoid any standing water on the substrate, the surface must be saturated surface dry (SSD).

Concrete and cement based substrates must be cured at least for 2 – 4 weeks prior to tile adhesive application

To check that surface preparation and adhesion are sufficient, conduct a small test before the final application.

Mixing

Mix with a mechanically powered mixer or drill fitted with a spiral paddle to ensure proper mixing. Pour the minimum recommended quantity of clean water (24 – 25 %) into a clean container. Gradually add powder to the water while mixing continuously at low speed (< 500 rpm).

Mixing time should be continued for 3 - 4 minutes until a uniform consistency, smooth, and free of lumps mixture is obtained. Add additional water, if necessary, to the maximum specified amount. Let mixture stand for about 5 minutes, then remix for ~ 30 seconds without adding any more water. Avoid over-mixing to minimize air entrainment.

Application

Apply a thin layer of ISOFIX 1051 onto the substrate using a flat edge of the trowel on the substrate. Immediately after, build up the thickness required according to the type and size of tile, using a suitable notched trowel.

In the case of external floors and finishing materials subject to freezing weather, or in the case of particularly difficult laying conditions, such as when laying large tiles > 900 cm², the double spreading (buttering) technique is always recommended. Exert adequate pressure to ensure 100 % complete and uniform contact with the adhesive to achieve optimum adhesion. The tile joints may be filled with ISO GROUT a minimum of 24 hours after the fixing of the tiles.

RECOMMENDATIONS

- Do not apply at a temperature below 5°C.
- Protect freshly applied material from freezing conditions and rain, etc
- Do not apply on metal surfaces, wood, rubber, PVC, linoleum surfaces, or non-absorbent substrates.
- Gypsum plaster and anhydrite screed substrates must have a moisture content of doesn't exceed 0.5 %.
- Apply sufficient adhesive to ensure adequate 'wetting' of the backs of the tiles. Coverage on the back of the tiles must be 100%.

CLEANING

All tools should be cleaned immediately after use with fresh clean water. Hardened materials should be cleaned mechanically.

PACKING

ISOFIX 1051 is supplied in bags of 20 kg (C1TE - white) & 25 kg (C1T - white & grey).

SHELF LIFE

Shelf life is up to 12 months from production date when stored as per recommendations.

STORAGE

Product must be stored in original unopened packaging, under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air-conditioned environment.

HEALTH AND SAFETY

As with all construction chemical products, caution should always be exercised. Wear gloves, coveralls and goggles during handling. ISOFIX 1051 may irritate the skin or eyes due its containing cement. In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary. Treat any splashes to the skin with fresh water. If the product is swallowed accidentally, do not induce vomiting, but call for medical assistance immediately.

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