Technical Data Sheet



Tile Adhesive C1TE S1

Product Description

C1TE S1 is Cement-based adhesive, made up of flexible copolymers, which make the product highly flexible. C1TE S1 has a rheological characteristic that guarantee complete tile coverage, as well as reduced vertical slip.

Features and benefits

- Easy to apply.
- Ready mixed, just requires addition of water.
- Good flexibility characteristics.
- High bond strength.
- Excellent slip resistance.
- Can be used for floors and walls.
- Can be used on Interior or exterior surfaces.
- Excellent open time, tiles can be adjusted up to 60 minutes after application.
- It meets the European standard BS EN 12004 and ISO 13007-1 as an improved cementitious tile adhesive with slip resistance and extended open time characteristics (C1TE S1).

Typical use

- For permanent fixing of all types of ceramic, porcelain and other non-porous tiles on submerged condition such as swimming pools, fountains and potable water tank.
- Highly recommended for bathrooms, kitchens and other wet areas.
- Excellent for exterior applications.

Substrate

Plaster, concrete, block work, cement board, etc....

Product Data

Packaging size 25 Kg

Form Powder

Colors White

Powder Density 1.60 g/cm³

Fresh Putty Density 1.70-1.80 g/cm³

Pull Off ≥1 MPa

Slip Resistance ≤ 0.5mm

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Application data

The product can be applied by

Notched trowel Recommended

Cleaning of painting tools

Immediate cleaning with water is necessary.

Film Thickness per coat

Dry film thickness 5 mm

Theoretical spreading rate 6-8 m²/pack

Spreading rates depending on the conditions of the substrate and the type of tile used.

Thinner (solvent to mix with)

Water

Dilution (Mix Ratio)

Tile Adhesive C1TE S1 is provided in powder form, for manual mixing, pour pure water in a clean empty container then add Tile Adhesive C1TE S1 gradually (W/C: 0.23-0.25).

Conditions during application

Do not apply if the temperature is below 5°C and not more than 40°C. For ambient air temperature > 30°C continuous humidification (spraying water mist) is required before and during application. Avoid working under direct sunlight.

Directions for use

Surface preparation

- Ensure that surface is thoroughly cleaned and free from grease, oil, dirt, salt and other containment.
- Surface must be moistened with water before applying the mixture, especially old surfaces.

Recommended Paint System

Number of coats:

One coat, apply with notched trowel then fix the tile. Proceed to apply while the adhesive is still wet.

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Some types of tiles need to be immersed prior to apply.

Storage

- Store in cool, dry place in a well-sealed container away from moist air for 6 months.
- Keep away from heat, ignition sources and from children.

Caution

- All above tests refer to Lab conditions of 20°C and 50% relative humidity. These Results will be increased at lower temperatures and reduced at higher temperatures.
- Protect from water and frost penetration until completely hardened, which may take a few days in unfavorable weather conditions.
- DO NOT apply if frost is forecast within 48 hours, in wet conditions, in temperatures below 5°C or above 25°C, to areas in direct sunlight or to substrates that are hot.

Health and safety

Possible Hazards: it causes irritation in case of skin contact & eye contact, flush immediately with plenty of water for at least 10 minutes and seek medical advice in case it happened.

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