

Technical Data Sheet - TDS



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CHEMFIX CT44

Ceramic tile adhesive with no vertical slip

PRODUCT DESCRIPTION

CHEMFIX CT44 is a cement based tile adhesive composed of cement, sands of selected aggregates and special additives according to a formula developed in **CHEMCON R&D**. **CHEMFIX CT44** is a normal **(1)** slip-resistant **(T)** cementations **(C)** adhesive of **class C1T**

APPLICATION AND USAGE

Bonding of Internal and external floors, walls and ceilings of ceramic tiles and mosaics, Light weight AAC and concrete blocks, Spot bonding of insulating materials such as expanded polystyrene, expanded polyurethane, rock and glass wool. Recommended substrates such as cement mortar, ordinary cementations screeds, traditional renders

CHEMFIX CT44 should not be used such as: On heated floors, for the installation of glass mosaics, large size tiles, on metal, PVC, rubber linoleum surfaces, on gypsum boards, on wood and light weight concrete and not for quick traffic areas

ADVANTAGES

- ▶ Easy workability
- ▶ Excellent adhesion to many substrates.

- ▶ For installation of interior/exterior residential/commercial floors, walls and ceilings.
- ▶ Spot bonding of insulating materials such as expanded polystyrene, expanded polyurethane, rock and glass wool
- ▶ Light weight AAC and concrete blocks
- ▶ Wet areas e.g. bathrooms, kitchens and toilets – Utility rooms like cellars, storerooms, drying rooms, living rooms, Balconies and terraces.

DIRECTIONS FOR USE

Surface Preparation: Surfaces to receive tiles should be clean, sound, stable and free from laitance, paint, oil, grease, mould release agents and residual curing compounds. Highly absorbent and porous surfaces should be thoroughly wetted down with clean water or sealed with a primer coat of **RocBond AR** prior to application of tiles. Ensure that tiles are dry and free from contaminants. Aerated concrete (free from dust) and primed with **RocBond AR**. Substrates must not be wet, any existing dirt, loose layers and paint coating with low strength shall be mechanically removed.

Mixing: Add the required amount of cool, clean water to a forced action mixer and slowly introduce the **CHEMFIX CT44**. Mix thoroughly to a thick and creamy consistency and let stand for 3-5 minutes.

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Part bags may be mixed using a slow speed drill and paddle mixer by adding **CHEMFIX CT44** to 4 to 4.5 liters of water for 20 kg of **CHEMFIX CT44**. Hand mixing is only acceptable for very small quantities and is not recommended.

Application: Apply **CHEMFIX CT44**, is applied with a notched trowel onto the surface of 1m²@ a thickness of 3–6mm. Press tiles into place with a slight twisting motion ensuring the tile back achieves full contact with the adhesive. To obtain good adhesion to the substrate the following system is recommended: First apply a thin coat of **CHEMFIX CT44** using the

smooth side of the trowel and immediately afterwards apply the desired thickness of **CHEMFIX CT44** using the toothed side of the trowel. For other vertical applications, use a 6mm notched trowel to horizontally comb the adhesive bed to remove excess. Choose a trowel that will give a coverage to the back of the tiles of approximately 70 - 75% for walls or for internal light foot traffic. For external application, the coverage must be 90-00%.

Coverage: small size tiles (trowel No4) 2 kg/m². Normal size tile (trowel No 5) 3kg/m². External floor and wall coverings (trowel No.6). 5 kg/m² approximately.

Spot-bonding insulating materials: approx. 0.5-0.8 kg/m² Gypsum wallboard, 1.5 kg/m². Coverage will vary according to the surface conditions.

Spacing: Ceramic tiles should not be butt jointed; leave a gap of 2mm around each tile. To ensure even spacing, tile spacing string or spacers of the required thickness are recommended.

Grouting: Wall joints between the ceramic tiles can be grouted after 4-8 hours and floor joints can be grouted after 24 hours

TRAFFIC PROTECTION: Protect floors from foot traffic for at least 72 hours after installation. Ready to use: Surfaces are ready for normal use after approx. 15 days.

TYPICAL PROPERTIES

Color	Grey and White
Mix Ratio	4.0-4.5 ltr of water for 20 kg
Pot Life	> 1 Hours
Mix Density	1900±100 kg/m ³
Open time	> Min.20mts
Adjustability time	Approx. 45 mts
Application temp:	+5 to 45 °C
Compliance with: Adhesion according to ISO 13007-1 (N/mm ²) American ANSI, A 118.1, Adhesion according to EN 12004	
Initial adhesion (after 28 days)	> 1.0
Adhesion after heating	> 0.75
Adhesion after water immersion	> 0.85
Adhesion after freeze-thaw cycles	> 0.11
Open time tensile adhesion strength @ 20 minutes	≥0.5 N/mm ² , EN 12004
Slip, (mm)	≤0.5 ,EN 12004
Glazed wall tile shear strength @7 days, Porcelain mosaic tile shear strength @7 days, Quarry tile shear strength @28 days	>2.00, >1.38 , >1.03 (ANSI A 118.4)
VOC	0.0 g/l

PACKING & STORAGE

CHEMFIX CT44 is supplied in 20/25 kg bags. Store unopened bags in clean, cool, and dry areas protected from direct sunlight. Store as for cement. Original unopened bags may be stored for up to 12 months

HEALTH & SAFETY

CHEMFIX CT44 contains no hazardous substances however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes wash thoroughly and immediately with warm water. If swallowed seek medical attention.

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

- ▶ **CIL Tile FIX LM**– High strength latex based two component tile glue.
- ▶ Rev. Dec 2018

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Product representative or visit our website for current technical data and instructions.

Disclaimer

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