

Technical Data Sheet - TDS



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CHEMFIX C11

Cementitious Adhesive for Ceramic Tiles

PRODUCT DESCRIPTION

CHEMFIX C11 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 C11** is a normal (1) cementitious adhesive of **class C1**.

APPLICATION AND USAGE

Bonding of ceramic tiles and mosaics, single-fired and double-fired tiles for Internal floors, walls and ceilings. Recommended substrates such as cement mortar, ordinary cementations screeds, traditional renders

CHEMFIX C11 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 ceramic tiles, mosaic tiles, indoor areas for walls and floors.

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 C11**. Mix thoroughly to a thick and creamy consistency and let stand for 3-4 minutes. Part bags may be mixed using a slow speed drill and paddle mixer by adding **CHEMFIX C11** to clean water 3.9 - 4.45 liters of water for 20 kg of **CHEMFIX C11**. Hand mixing is only acceptable for very small quantities and is not recommended.

Application: Apply **CHEMFIX C11**, 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

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recommended: First apply a thin coat of **CHEMFIX C11** using the smooth side of the trowel and immediately afterwards apply the desired thickness of **CHEMFIX C11** 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 - 80 % for walls or for internal light foot traffic. For external application, the coverage must be 90 - 100%.

Coverage: For Small size tiles (trowel No4) 2 kg/m², Normal size tile (trowel No 5) 3kg/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 6-8 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.

PACKING & STORAGE

CHEMFIX C11 is supplied in white and Grey 20/ 25 kg bags. Store unopened bags in clean, cool, and dry areas. Protected from direct sunlight same as for cement. Original unopened bags may be stored for up to 12 months.

HEALTH & SAFETY

CHEMFIX C11 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.

TYPICAL PROPERTIES

Color	Grey and White
Pot Life	> 1 Hour
Mix Density	1900±100 kg/m ³
Open time	> 20 Mts
Adjustability Time	Approx. 45 mts
Application temp:	+5 to 45 °C
Compliance with: Adhesion according to ISO 13007-1 Adhesion according to EN 12004 American ANSI A 118.1	
Initial adhesion (after 28 days)	> 0.75 N/mm ²
Adhesion after heating	> 0.70 N/mm ²
Adhesion after water immersion	> 0.5 N/mm ²
Glazed wall tile shear strength @ 7 days	> 1.38N/mm ²
Adhesion after freeze-thaw cycles	> 0.80
VOC:	0.0g/l

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

- ▶ **RocFloor Primer** - Epoxy resin bonding agents suitable for bonding new to old concrete.
- ▶ **RocBond AR-** Primer–Single component low viscosity acrylic primer.
- ▶ **CIL tile grout E-** Epoxy tile grout and adhesive.
- ▶ **CIL tile Fix U** - Universal Tile adhesive and mortar.
- ▶ **CIL tile Grout** - water resistant, polymer modified cement based grout.
- ▶ **CIL WALL TILE ADHESIVE** – Acrylic modified ready mixed wall tile adhesive paste.
- ▶ **CIL Tile FIX LM**– High strength latex based two component tile glue.

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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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