

# Technical Data Sheet - TDS



## CHEMCON

## CHEMFIX C22

Cementitious Adhesive for ceramic tiles

### PRODUCT DESCRIPTION

**CHEMFIX C22** 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 C22** is a **C2** class cementations (**C**), improved (**2**).

### APPLICATION AND USAGE

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

**CHEMFIX C22** 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 interior/external residential installations on floors and walls. Interior/external commercial installations on floors and most interior commercial installations on walls.

### 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 C22**. Mix thoroughly to a thick and creamy consistency and let stand for 4-5 minutes. Part bags may be mixed using a slow speed drill and paddle mixer by adding **CHEMFIX C22** to 3.9-4.4 liters of water for 20 kg of **CHEMFIX C22**. Hand mixing is only acceptable for very small quantities and is not recommended.

**Application:** Apply **CHEMFIX C22**, is applied with a notched trowel onto the surface of 1m<sup>2</sup>@ 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 C22** using the

## CHEMCON

smooth side of the trowel and immediately afterwards apply the desired thickness of **CHEMFIX C22** 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 90-100%.

**Coverage:** small size tiles (trowel No4), 2 kg/m<sup>2</sup>. Normal size tile (trowel No 5) 3kg/m<sup>2</sup>. External floor and wall coverings (trowel No.6). 5 kg/m<sup>2</sup>. 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 C22** is supplied in 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 C22** 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.

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

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer? Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and GET makes no claim that these tests or any other tests, accurately represent all environments.

## TYPICAL PROPERTIES

Color	Grey and White
Mix Ratio	3.9-4.4 ltr of water for 20 kg
Pot Life	> 2 Hours
Mix Density	1900±100 kg/m <sup>3</sup>
Open time	Min.20mts
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 118.4	
Initial adhesion (after 28 days)	> 1 N/mm <sup>2</sup>
Adhesion after heating	> 0.75 N/mm <sup>2</sup>
Adhesion after water immersion	> 0.85 N/mm
Adhesion after freeze-thaw cycles	> 0.95
Glazed wall tile shear strength @ 7 days	> 1.38N/mm
VOC:	0.0g/l

- ▶ **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.

Rev. Dec 2018