

Technical Data Sheet - TDS



CHEMFIX RAPID

High-performance, Rapid-Setting,
Large and Heavy Tile Mortar

PRODUCT DESCRIPTION

CHEMFIX RAPID 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 divisions**. **CHEMFIX RAPID** is a fast-setting, large-and-heavy-tile mortar and thin-set mortar for tile and stone installation on floors, walls and countertops. It is formulated as non-sag for walls and nonslump for floors. It can also be used as a mortar over uncoupling, crack-isolation, sound-reduction and waterproofing membranes. Classification **C2TF**

APPLICATION AND USAGE

For use over exterior-grade plywood, installation of ceramic and porcelain tile, quarry tile, pavers and Saltillo tile, as well as most types of marble, granite and natural stone.

For most interior and exterior residential installations on floors and walls, interior and exterior commercial installations on floors and most interior commercial installations on walls. And for use in tub surrounds and showers.

CHEMFIX RAPID should not be used such as: on concrete subject to high shrinkage, on walls and floors subject to strong movement or vibration (wood, fibre-cement, etc.) on metal surfaces

Do not use for moisture-sensitive stone (green marble; some limestone and granite), Resin-backed tiles. Do not use over dimensionally unstable substrates. To use directly over gypsum-based patching or leveling substrates,

ADVANTAGES

- ▶ Ideal for edge-leveling clip.
- ▶ Nonslump formula for large-format and heavy
- ▶ Tile and stone in floor applications
- ▶ For bond coats up to 12 mm in embedded thickness
- ▶ Polymer-enriched for high performance
- ▶ For use over plywood and a variety of membranes
- ▶ Easy workability
- ▶ Excellent adhesion to many substrates.
- ▶ For installation of interior/exterior residential/commercial floors, walls and countertops.
- ▶ Spot bonding of insulating materials such as expanded polystyrene, expanded polyurethane, rock and glass wool

PACKING & STORAGE

CHEMFIX RAPID 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

TYPICAL PROPERTIES

Color	Grey and White
Mix Ratio	5.25-6.1 ltr of water for 20 kg
Pot Life	> 30 hours
Mix Density	1650±100 kg/m ³
Open time	> 10-20 mts
Application temp:	
Bonding strength in accordance with EN 1348 N/mm ² ISO 13007 Classification	
ANSI A118.4 (shear strength porcelain)	> 1.38 MPa @ 28 days
ANSI A118.4 (shear strength, glazed wall tile)	> 2.07 MPa@ 28 days
> ANSI A118.4 (shear strength, quarry tile to quarry tile)	> 1.03 MPa @28 days
ANSI A118.4T (Sag on vertical surfaces)	> 0.5 mm
ANSI A118.4F (shear strength, impervious ceramic)	> (0.34 MPa) at 4 hours
ANSI A118.11 (shear strength, quarry tile to plywood)	> 1.03 MPa@ 28 days
VOC:	0.0g/l

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 RAPID**. 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 **CHEM-FIX RAPID** to clean water 5.4-6.0 liters of water for 20 kg of **CHEMFIX RAPID**. Hand mixing is only acceptable for very small quantities and is not recommended.

Application: Apply **CHEMFIX RAPID** 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 RAPID** using the smooth side of the trowel and immediately afterwards apply the desired thickness of **CHEMFIX RAPID** 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% for walls or for internal light foot traffic. For external application, the coverage must be 100%. To obtain good adhesion to the substrate the following system is recommended: first apply a thin coat using the smooth side of the trowel and immediately afterwards apply the desired thickness using the toothed side of the trowel.

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

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.

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.

CHEMCON INTERNATIONAL LLC

P: 12360, Thoban - Fujairah, United Arab Emirates T: +971 6 882 0024

E: info@chemconinternational.com W: www.chemconinternational.com

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.

DIRECTIONS FOR USE

CHEMFIX RAPID 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.

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.

CILTileFixU- 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

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.

CHEMCON INTERNATIONAL LLC

P: 12360, Thoban - Fujairah, United Arab Emirates T: +971 6 882 0024

E: info@chemconinternational.com W: www.chemconinternational.com