

ELM Tile Adhesive (Premium)

Polymer modified one component, high performance waterproof tile adhesive.

Uses

Elm tile Premium is a high quality adhesive for the permanent fixing of ceramic wall and floor tiles including porcelain and fully vitrified tiles, ceramic mosaics, quarry tiles, dark natural stone, terrazzo and brick slips. Typical uses include:

- Wet areas – kitchen and bathrooms
- Swimming pools
- Fixing marble tiles (up to 40 kg/m² on vertical)
- Fixing heavy elements eg: brick slips concrete tiles.
- Bridges, underpasses and high rise buildings.
- External claddings.

Advantages

- Formulated to suit Middle East Conditions
- Enhanced bond and tensile strengths.
- Good open time and slip resistance.
- Safe and easy to use
- Water resistant –suitable for submerged conditions.

Description

Elm tile premium is supplied as a single component pack, which requires only the on-site addition of clean water to produce a

Consistently high performance adhesive, suitable for the following substrates.

- Concrete
- Cement plaster
- Concrete masonry
- Cement motor beds
- Ceramic tile and stone
- Brick masonry
- Cement terrazzo
- Ceramic backer board.

Properties

Density	: 1700 kg/m ²
Tensile adhesion strength (EN 1348 – stoneware tiles)	
28d sc	: >1.5 N/mm ²
7d sc +21 d water	: >1.0 N/mm ²
14d sc + 14d 70° C+1d sc	: >2.0 N/mm ²
Open time by tensile adhesion Strength (EN 1346 – earthenware tiles)	
5 mins	: >1.5 N/mm ²
20 mins	: >1.0 N/mm ²
30 mins	: >0.7 N/mm ²
Transverse deformation (EN 12002)14 d 23°C/95%RH+14d sc	
Deflection at max. Force	: >3.0 mm
Stress at max.force	: >2.5 N/mm ²
Deflection at break	: >0.3 mm ²
Stress at break	: >2.3 N/mm ²

Glazed Impervious quarry			
	tiles	tiles	tiles
Shear adhesion (ANSI 118.4(N/mm ²))			
48 h	: >0.7	-	-
7d sc	: >2.09	>1.6	> 1.2
7d sc +7d water	: >1.4	>1.05	-
4 weeks sc	: >2.4	>1.5	>1.35
12 weeks sc	: >2.5	>1.7	>1.3

Instruction for use

Surface preparation

All surfaces must be sound and thoroughly clean before Elma tile premium is applied. All traces of grease or oil must be removed with a chemical degreaser. All loose particles of mortar, old wall paper, paint etc. must be physically removed.

Surfaces

Elm tile adhesive (premium) can be directly applied on concrete, cement screeds and cement or lime mortar. Special attention must be given to new construction prior to commencing tiling. Tiles should not be placed on concrete or block work until all shrinkage movement has taken place.

Mixing

A slow speed drill fitted with a suitable mixing paddle and mixing vessel of minimum 30 liter capacity is recommended. Add Powder to water and mix until a uniform, lump – free consistency is achieved.

25 kg (Grey) - 5.5 liter water (max)

25 kg (white) – 6.25 liter water (max)

Application

Elm tile premium should be spread on the substrate to a uniform thickness of 2-8 mm, and then combed horizontally. Place tiles firmly into adhesive bed, ensuring good contact with a twisting motion. Only apply to area which can be tiled in the adhesives open wet time (up to 1 m² at a time.)

Joints

It is recommended that when fixing ceramic tiles, a minimum spacing of 2 mm be left around each tile.

Finishing

Remove excess adhesive with a damp cloth before material has set.

Cleaning

Elm tile adhesive premium should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically.

Grouting

Grout installation should be after a minimum of 24 hours curing time at 25 °c

Limitations

Elm tile adhesive premium should not be used when the temperature is less than 5° C and falling. The product should not be exposed to moving water during application. If any doubts arise consult your local Elmrr office.



Estimating

Supply

ELM Tile Adhesive premium : 25 Kg

Yield

ELM Tile Adhesive premium : 4-5 m²

Storage

Elm tile adhesive Premium has a shelf life of 12 months if kept in dry store in the original unopened bags or packs. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

Health and safety

Elm Tile Adhesive (Premium) contains cement and polymer powders which, when mixed with water or upon becoming damp, releasing alkalis which can be harmful to skin.

During use, avoid inhalation of the dust and contact with skin or eyes. Wear suitable protective clothing- eye protection, gloves and respiratory equipment (particularly in confined spaces)

The use of barrier creams to provide additional skin protection is also advised. In case of contact with skin rinse with plenty of water, then cleanse thoroughly with soap and water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical advice immediately-do not induce vomiting.

Fire

Non- inflammable

For further information please contact your local Elmrr office.

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