

LATICRETE 290

Fixing small format Ceramic tile/Vitrified tile/Natural Stone on Cement based screed/plaster, existing floor such as kota stone/marble/cement mosaic tile with Laticrete 290 premium thin set adhesive mixed with water. The thickness of adhesive shall be based on the tile size

Tile size upto 300X300mm - 3mm adhesive thickness

Tile size 450X450mm – 4.5mm adhesive thickness

Tile size 600X600mm – 6.0mm adhesive thickness

Tile size 900X900mm – 7.5mm adhesive thickness

Tile size > 900X900mm – 9.0mm adhesive thickness

The mixing ratio shall be as follows

20kg bag(Laticrete 290) : 5ltr to 6ltr potable water

The plaster applied over the wall for screed shall be strong, confirm to good design and capable of carrying out the weight of the tile, further the cement screed/plaster shall be free of dirt, dust and level and true within 3mm in 2.5m.

The adhesive shall be applied using Laticrete square notch trowel as supplied by the company

For detailed installation and laying procedure follow MYK LATICRETE Method Statements.

Laticrete products supplied shall be as Manufactured by MYK LATICRETE India Pvt Ltd

Performance Properties L 290:

LATICRETE® 290 Adhesive mixed with Water

Applicable Standards:

ANSI A118.1; EN 12004 & ISO 13007; IS15477

ANSI Data		
Property : Test method	Requirement	Typical Values
Open Time (20 Minutes at 28 days): ANSI A118.1 Clause – 5.3	≥75 psi (0.50 Mpa)	100 psi – 120 psi (0.68 – 0.82 Mpa)
Sag: ANSI A118.1- Clause 6.0	≤0.02 Inches (0.50 mm)	0.012 – 0.016 Inches (0.30-0.40 mm)
Glazed wall tile Shear Strength		
7 Days: ANSI A118.1 – Clause	>200psi (1.38Mpa)	225-275 psi (1.54)

7.1.2		Mpa-1.89 Mpa)
7 Days Water immersion: ANSI A118.1 - Clause 7.1.3)	> 150psi (1.03Mpa)	200-250 psi (1.37 Mpa-1.72 Mpa)
Porcelain Mosaic Tile Shear Strength		
1 Day: ANSI A118.1 – Clause 7.2.2	>50psi (0.34Mpa)	100 - 150 psi (0.68 – 1.03 Mpa)
7 Days: ANSI A118.1 – Clause 7.2.3	> 150psi (1.03Mpa)	200 - 250 psi (1.37 – 1.72 Mpa)
7 Days Water immersion: ANSI A118.1 – Clause 7.2.4	> 100psi (0.69Mpa)	150 - 200 psi (1.03 – 1.37 Mpa)
28 Days: ANSI A118.1 – Clause 7.2.5	> 150psi (1.03Mpa)	200 - 250 psi (1.37 – 1.72 Mpa)
12 Weeks: ANSI A118.1 – Clause 7.2.6	> 150psi (1.03Mpa)	200 - 250 psi (1.37 – 1.72 Mpa)

The adhesive mortar conforms to ANSI A118.1T

EN / ISO Data		
Property: Test Method	Requirement	Typical Values
Open Time: EN 1346	≥0.50 N/mm ²	0.65 – 0.75 N/mm ²
Slip Resistance: EN 1308	≤0.50 mm	0.30 - 0.40 mm
Tensile Adhesion Strength		
Initial: EN 1348 – Clause 8.2	≥0.50 N/mm ²	0.75 – 1.00 N/mm ²
After Water Immersion : EN 1348 - Clause 8.3	≥0.50 N/mm ²	0.75 – 1.00 N/mm ²
Heat Ageing: EN 1348 – Clause 8.4	≥0.50 N/mm ²	0.75 – 1.00 N/mm ²
Freeze- Thaw: EN 1348 – Clause 8.5	≥0.50 N/mm ²	0.75 – 1.00 N/mm ²

The adhesive mortar conforms to EN12004 / ISO 13007 as C1T

IS Data		
Property : Test method	Requirement	Typical Values
Shear Adhesion		
Dry Conditions (24 Hours) – Annex B (Clause 4.6)	Min.4.00 kN	4.05 – 4.50 kN
Dry Conditions (14 Days) – Annex B (Clause 4.6)	Min.10.00 kN	10.50 – 12.00 kN
Heat Ageing (7 Days Std + 7 Days Oven) – Annex B (Clause 4.6)	Min.5.00 kN	5.25 – 6.00 kN
Wet Conditions (7 Days Std + 7 Days Water) – Annex B (Clause 4.6)	Min.5.00 kN	5.10 – 6.00 kN

The Adhesive mortar conforms to IS 15477: Type 2 Adhesive