**LATICRETE® 307**
Thin-set Adhesive

**Features / Benefits**
- Single component, just add water
- Interior applications, polymer based
- Economical & Easy to use
- Bonds to various substrates
- Exceeds ANSI A118.1T shear bond strength requirements
- Complies with EN / ISO with a C1T classification.
- Exceeds IS 15477 – Type 1 Adhesive standards.
- Can be fortified with latex admix for external use.

**Substrates**
- Concrete
- Concrete Masonry
- Cement Mortar Beds
- Cement Plaster
- Existing Vitrified Tile* & Ceramic Tile*
- Brick Masonry
- Cement Terrazzo
- Existing Natural Stone*

* Surface to be cleaned and roughened before installation of tiles or stones.

**Application**
Designed especially for interior floor and wall installations of all types of ceramic tile, semi-vitreous tile, precast terrazzo and small format natural stones over concrete and on a variety of cement based substrates.

**Certifications**
- IS 15477 Type: 1
- EN: C1T

Polymer based thinset adhesive for fixing small to medium format ceramic tiles and small format stone on interior floor & wall.
TECHNICAL DATA

Performance Properties:
LATICRETE® 307 Adhesive mixed with Water

Applicable Standards:
ANSI A118.1-1999; EN 12004 & ISO 13007; IS15477

<table>
<thead>
<tr>
<th>Property: Test method</th>
<th>Requirement</th>
<th>Typical Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Time (20 Minutes at 28 Days): ANSI A118.1 Clause – 5.3</td>
<td>≥75 psi (0.50 Mpa)</td>
<td>95 psi – 100 psi (0.65 – 0.69 Mpa)</td>
</tr>
<tr>
<td>Sag: ANSI A118.1 - Clause 6.0</td>
<td>≤0.02 Inches (0.50 mm)</td>
<td>0.016 – 0.018 Inches (0.40-0.45 mm)</td>
</tr>
<tr>
<td>Glazed wall tile Shear Strength</td>
<td>&gt;200psi (1.38Mpa)</td>
<td>200-225 psi (1.38 Mpa-1.55 Mpa)</td>
</tr>
<tr>
<td>Porcelain Mosaic Tile Shear Strength</td>
<td>&gt;150psi (1.03Mpa)</td>
<td>150-175 psi (1.03 Mpa-1.20 Mpa)</td>
</tr>
<tr>
<td>1 Day: ANSI A118.1 – Clause 7.2.2</td>
<td>&gt;50psi (0.34Mpa)</td>
<td>75 - 100 psi (0.51 – 0.69 Mpa)</td>
</tr>
<tr>
<td>7 Days Water immersion: ANSI A118.1- Clause 7.2.3</td>
<td>&gt;150psi (1.03Mpa)</td>
<td>175 - 200 psi (1.20 – 1.38 Mpa)</td>
</tr>
<tr>
<td>7 Days Water immersion: ANSI A118.1- Clause 7.2.4</td>
<td>&gt;100psi (0.69Mpa)</td>
<td>150 - 175 psi (1.03 – 1.20 Mpa)</td>
</tr>
<tr>
<td>28 Days: ANSI A118.1 – Clause 7.2.5</td>
<td>&gt;150psi (1.03Mpa)</td>
<td>175 - 200 psi (1.20 – 1.38 Mpa)</td>
</tr>
<tr>
<td>12 Weeks: ANSI A118.1 – Clause 7.2.6</td>
<td>&gt;150psi (1.03Mpa)</td>
<td>175 - 200 psi (1.20 – 1.38 Mpa)</td>
</tr>
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</table>

The adhesive mortar conforms to ANSI A118.1T

<table>
<thead>
<tr>
<th>EN / ISO Data</th>
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</tr>
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<tr>
<td>Open Time: EN 1346</td>
<td>≥0.50 N/mm²</td>
<td>0.65 – 0.69 N/mm²</td>
</tr>
<tr>
<td>Slip Resistance: EN 1308</td>
<td>≤0.50 mm</td>
<td>0.40 - 0.45 mm</td>
</tr>
<tr>
<td>Tensile Adhesion Strength</td>
<td>Initial: EN T348 – Clause 8.2</td>
<td>≥0.50 N/mm²</td>
</tr>
<tr>
<td></td>
<td>After Water Immersion: EN 1348 – Clause 8.3</td>
<td>≥0.50 N/mm²</td>
</tr>
<tr>
<td></td>
<td>Heat Ageing: EN 1348 – Clause 8.4</td>
<td>≥0.50 N/mm²</td>
</tr>
</tbody>
</table>

Freeze- Thaw: EN 1348 – Clause 8.5

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<tbody>
<tr>
<td>Tensile Adhesion</td>
<td>Dry Conditions (14 Days Std.) – Annex A (Clause 4.4)</td>
<td>Min.750 N</td>
</tr>
<tr>
<td></td>
<td>Wet Conditions (7 Days Std + 7 Days Water) – Annex A (Clause 4.4)</td>
<td>Min.450 N</td>
</tr>
<tr>
<td>Shear Adhesion</td>
<td>Dry Conditions (24 Hours) – Annex B (Clause 4.5)</td>
<td>Min.2.5 kN</td>
</tr>
<tr>
<td></td>
<td>Heat Ageing (7 Days Std + 7 Days Oven) – Annex B (Clause 4.5)</td>
<td>Min.4.00 kN</td>
</tr>
<tr>
<td></td>
<td>Wet Conditions (7 Days Std + 7 Days Water) – Annex B (Clause 4.5)</td>
<td>Min.4.00 kN</td>
</tr>
</tbody>
</table>

The Adhesive mortar conforms to IS 15477: Type 1 Adhesive

Packaging:
20 kg & 50 kg bags

Colour:
Grey

Coverage:
Approx 55-60 sq ft per 20kg bag with 1/4” x 1/4” (6mm x 6mm) square notched trowel for average bed of 3mm.
Coverage will vary depending on trowel notch size, type and size of tile and substrate smoothness and evenness.

Working Properties at 70° F (21° C)
LATICRETE® 307 Adhesive mixed with Water

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<tr>
<td>Open Time</td>
<td>20 minutes</td>
<td></td>
</tr>
<tr>
<td>Pot Life</td>
<td>3 - 4 hours</td>
<td></td>
</tr>
<tr>
<td>Time to Heavy Traffic</td>
<td>16 - 24 hours</td>
<td></td>
</tr>
</tbody>
</table>

Specifications subject to change without notification.
Results shown are typical but reflect test procedures used.
Actual field performance will depend on installation methods and site condition.
**INSTALLATION**

**Surface Preparation:**

All surfaces should be between 40° F(4°C) and 104° F(40°C) and structurally sound, clean and free of all dirt, oil, grease, loose peeling paint, laitance, concrete sealers or curing compounds.

Check the surface to be true to plumb. All slabs must be plumb and true to within ¼”(6mm) in 10 ft(3m). Rough or uneven concrete surfaces should be made smooth with LATICRETE® Screed/Plaster material to provide a wood float (or better) finish. Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. New concrete slabs shall be damp cured and 28° days old before application.

*No minimum cure time for concrete slabs when thin-set mortar is mixed with latex additive.

Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Do not cover expansion joints with thin set mortar. Follow ANSI Specification AN-3.8 “Requirements for Expansion Joints” or TCA Detail EJ171 “Expansion Joints”. For tile installation over Cement Backer Board: follow TCA installation details W244.

**NOTE:** For tile or stone installations on plywood and wood substrates, MYKLATICRETE DWA 215 OR MYKLATICRETE PUA 212 is recommended. Please refer specific product Technical Data Sheet for detailed recommendations.

**Mixing:**

Place clean, potable water into a clean mixing bowl. Add LATICRETE® 307 powder into the mixing bowl. Use approximately 5.5 - 6L of water for 20 kg of powder. Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. Allow adhesive to slake for 5-10 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel.

*Note: Addition of LATICRETE® latex admix*, partially or completely replacing water would enhance the bond strength, flexibility of the thinset mortar.

* Contact MYKLATICRETE technical services for large format tile or stone installations on exterior surfaces.

**APPLICATION:**

Apply adhesive to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional adhesive with the notched side. Use the proper sized notched trowel to ensure full bedding of the tile. Spread as much adhesive as can be covered with tile in 10 minutes. Back butter large format tiles (> 12”x12”) to provide full bedding and firm support. Place tiles into wet, sticky adhesive and beat in using a beating block and rubber mallet to imbed tile and adjust level. Check adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto back of tile. Use of MYK Laticrete spacers is recommended to provide grout joints between tiles / stones. The joint width shall be as per the recommendation of architect / engineer. Remove the spacers when the adhesive is set firm. If adhesive is skinned over (not sticky), remove and replace with fresh adhesive.

For highly absorbent natural stones which may form a wet patch when adhesive is used, it is recommended to use suitable Laticrete Impregnating sealer on all sides. LATICRETE® 3642 Latex admix can also be used as a bottom coat for natural stones to prevent wet patches during installation. Please refer Technical Data Sheets of product intended for use for specific instructions of use.

**HOT & COLD WEATHER TILING:**

* Please refer technical document on Hot & Cold weather tiling

**Grouting:**

Grout installation shall be commenced after a minimum of 24 hours curing time at 70°F (21° C). Grout with LATICRETE® Sanded or Unsanded Grout mixed with LATICRETE® 1776 Grout Admix Plus. For maximum stain resistance of Internal spacer joints applications, use SpectraLOCK® Pro Premium Grout, MYK Laticrete Stellar Grout OR LATAPOXY® SP-100 Stainfree Grout.

**CUSTOMER CARE**

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