



## 305 PLUS Improved Adhesive

305 Plus (Formerly known as 315 Tile Adhesive) is a High Performance bagged cementitious powder to be mixed with either water or latex admixture to install ceramic tile and natural stone using the thin-set method of installation.



### ADVANTAGES



- High tack – Will hang tile without slippage.
- Dual purpose, for walls and floors
- Ready to use, just mix with water except for exterior facades.
- Long open time.
- Water & heat resistant.
- Strong bond and durable.
- Elevated standard compliance with Laticrete Latex.

### USES

- Designed for interior or exterior installation of ceramic tile and natural stone for walls & floors.
- For exterior façade, mix with latex 3701 Mortar Admix. Must fortify with latex for impervious tiles, porcelain, mosaic, glass, and stone tiles, use with cement backer board and heavy traffic areas.

### MANUFACTURER

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### STANDARDS / CERTIFICATIONS

Complies ANSI A 118.1 when mixed with water.

Meets ANSI A 118.4, EN12004 C1TE, ISO 13007 when mixed with latex (3701 Mortar Admix)



DCLD CERTIFIED

**Packaging** - 20kg bag; 72 bags per pallet

**Color:** Grey and White

#### Suitable Tiles:

Ceramic/ Glazed tiles, when mixed with water.

Porcelain/vitrified, ceramic, glass mosaics, quarry and stone tiles, when mixed with 3701 Mortar Admix:

#### Suitable Substrates

- Concrete
- Cement plaster
- Concrete masonry
- Cement mortar bed
- Cement terrazzo
- Brick Masonry
- Cement backer board\*\*\*
- Ceramic Tiles & Stones

\*\*\* Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

#### Approximate Coverage for 20Kg bag.

Trowel notch size	Sqm.
6 mm x 6 mm	5.5 – 6.5
6 mm x 9 mm	5.0 – 6.0

NOTE: Above coverage is intended as a guide, it may vary depending upon application technique, substrate profile/flatness, trowel angle, trowel wear and wastage factor.

Actual coverage shall be determined by mockup area based on site conditions.

#### Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) if stored off the ground on pallet in warehouse condition at 0 - 40°C, below 65% relative humidity. *High humidity will reduce the shelf life of bagged product.*

#### Limitations

Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproof membranes. When a waterproof membrane is required, use a LATICRETE® Waterproof Membrane.

For large format tiles, pls check our technical department for suitable adhesive.

Suitable for submerged conditions when mixed with latex 3701 Mortar admix.

*Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for*

*thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L=span length.*

#### Cautions

- Consult SDS for more safety information.
- Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally. Avoid breathing dust. Wear respirators in dusty areas.
- Keep out of reach of children.

#### TECHNICAL DATA

##### Physical Properties

###### ANSI 118.1-mixed with water

Shear strength, Ceramic tile	Specifications	Results
7 day, CI 7.1.2	≥1.38 MPa (200 psi)	1.4 - 1.6 MPa
Water immersion-7 days, CI 7.1.2	≥1.03 MPa (150 psi)	1.1 - 1.8 MPa

###### ANSI 118.4-mixed with latex: 3701 Mortar admix

Shear strength, Porcelaine tile		
1 day, CI 7.2.2	0.5 Mpa (72.5 psi)	0.8 - 1.6 MPa
7 day, CI 7.2.3	1.38 Mpa (200 psi)	1.5 - 2.0 MPa
Water immersion-7 days, CI 7.2.4	1.03 Mpa (149 psi)	1.1 - 1.8 MPa
28 day, CI 7.2.5	1.38 Mpa (200 psi)	1.6 - 2.4 MPa
Freeze thaw cycling- 28 days, CI 7.2.6	1.21 Mpa (175.5 psi)	1.3 - 2.2 MPa

###### EN 12004-2/ ISO 13007-2: mixed with 3701 Mortar Admix

Initial tensile adhesion strength	≥ 0.5 N/mm <sup>2</sup>	0.6 - 1.2 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	≥ 0.5 N/mm <sup>2</sup>	0.7 - 1.4 N/mm <sup>2</sup>
Tensile adhesion strength after heat ageing	≥ 0.5 N/mm <sup>2</sup>	0.7 - 1.3 N/mm <sup>2</sup>
Tensile adhesion strength after freeze- thaw cycles	≥ 0.5 N/mm <sup>2</sup>	0.7 - 1.6 N/mm <sup>2</sup>
Open time: tensile adhesion strength, 30 mins	≥ 0.5 N/mm <sup>2</sup>	0.5 - 0.8 N/mm <sup>2</sup>
Slip (T)	≤ 0.5 mm	Passes

#### Working Properties @ 23°C

Pot Life	2 hrs.
Time to grout	24 hrs.
Time to traffic (foot- Light)	24 hrs.
Ready for full service	2 weeks
Wet Density	1.70 ± 0.1 g/cm <sup>3</sup>

The technical data shown are typical but reflect laboratory test procedures conducted in laboratory conditions at 23±2°C and 55±5 % relative humidity.

*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 conditions.*



**Warning:** The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® unable to directly control the installation conditions and modalities of application of products, do not assume any liability arising from their implementation. Those who want to use the LATICRETE® products must conduct adequate tests to determine the site specifications. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation method and site conditions.