



315 PLUS

DS-882-0124

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

315 PLUS

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

315 PLUS is an improved cement based adhesive with excellent workability and extended open time, designed for use in interior and exterior thin-bed applications; it is mixed with either water or latex admixture for installation of tile and stone.

Uses

- For interior and exterior installation of tile and stone using the thin-bed application method
- Good for walls and floors
- Can be fortified with latex admix for improved performance
- Joint and finishing mortar for aerated concrete masonry blocks
- Please refer to the "Adhesive Selection Guide" in the product catalogue for a complete list of applications and maximum permitted sizes

Advantages

- Extended open time — 3 hour pot life
- Excellent workability and easy to use
- Non-sag — ideal for walls and vertical applications
- Available in white or grey
- When mixed with 3701 MORTAR ADMIX, meets S1 or S2 requirements

Suitable Substrates

- Cement Mortar/Render
- Cement Plaster
- Cement Block
- Existing Ceramic Tile and Stone (Interior Only)
- Gypsum Wallboard (Interior use only, non-wet areas)

Packaging

Grey & White

25 kg bag; 48 bags per pallet

Approximate Coverage / Consumption

- ~4 kg/m² with a 10 x10 mm notched trowel
- ~7 kg/m² with a 15 mm notched trowel

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year if stored off the ground in a dry area. High humidity will reduce the shelf life of bagged product.

Limitations

- Gypsum-based or particularly absorbent substrates should be treated with a primer.
- DO NOT use in wet areas, cold rooms, prefabricated structures, heated floors, concrete substrates, and floors subjected to heavy loads without fortifying with latex admix.
- DO NOT use in submerged applications.
- DO NOT use with tile or stone larger than 45 cm in length for interior use or 30 cm in length for exterior use.
- Maintain expansion and perimeter joints.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not designed as replacements for waterproof membranes. When a waterproof barrier is required, use a LATICRETE® Waterproofing Membrane.

Cautions

For more information, consult the safety data sheet.

- For green marble, resin backed tile and stone and other moisture sensitive marbles and agglomerates, use LATAPOXY® 300 ADHESIVE.
- During the winter, protect the work from freezing and from the pedestrian crossing until completely hardened.
- Contains cement and sand. It can irritate the eyes. May cause sensitization by skin contact. Wear protective gloves and goggles when mixing and applying the product. In case of contact with the skin, wash thoroughly with water. Do not swallow. Avoid breathing dust.
- Keep out of reach of children

4. TECHNICAL DATA



VOC/LEED Product Information

- Émissions dans l'air intérieur: A+

Applicable Standard

- EN 12004 C1 TE
- EN 12004 C2 TE S1 or S2 when mixed with 3701 MORTAR ADMIX*
- ISO 9001:2015 Quality Management System

*Refer to Physical Properties & Working Properties for details.

Physical Properties

Basis:	Cement, aggregates, additives
Colour:	White or Grey
Apparent Density:	1.20 g/cm ³
Maximum Grain Size:	0.5 mm
Flammability:	No
Temperature Resistance:	From -30 °C to +90 °C

315 PLUS mixed with water			
Classification EN 12004-1:	C1 TE		
	Value	Requirement	Test Method
Tensile Adhesion Strength:	≥ 0.5 N/mm ²	≥ 0.5 N/mm ²	12004-2 8,3
Tensile Adhesion Strength after Water Immersion:	≥ 0.5 N/mm ²	≥ 0.5 N/mm ²	12004-2 8,3
Tensile Adhesion Strength after Heat Ageing:	≥ 0.5 N/mm ²	≥ 0.5 N/mm ²	12004-2 8,3
Tensile Adhesion Strength after Freeze-Thaw Cycles:	≥ 0.5 N/mm ²	≥ 0.5 N/mm ²	12004-2 8,3
Open Time: Tensile Adhesion Strength after 30 min.	≥ 0.5 N/mm ²	≥ 0.5 N/mm ²	12004-2 8,1
Slip:	≤ 0.5 mm	≤ 0.5 mm	12004-2 8,2

315 PLUS mixed with diluted 3701 MORTAR ADMIX (1:1 latex : water)			
Classification EN 12004-1:	C2 TE S1		
	Value	Requirement	Test Method
Tensile Adhesion Strength:	≥ 1.0 N/mm ²	≥ 1.0 N/mm ²	12004-2 8,3
Tensile Adhesion Strength after Water Immersion:	≥ 1.0 N/mm ²	≥ 1.0 N/mm ²	12004-2 8,3
Tensile Adhesion Strength after Heat Ageing:	≥ 1.0 N/mm ²	≥ 1.0 N/mm ²	12004-2 8,3
Tensile Adhesion Strength after Freeze-Thaw Cycles:	≥ 1.0 N/mm ²	≥ 1.0 N/mm ²	12004-2 8,3
Open Time: Tensile Adhesion Strength after 30 min.	≥ 0.5 N/mm ²	≥ 0.5 N/mm ²	12004-2 8,1
Transverse Deformation:	≥ 2,5 mm	≥ 2,5 mm	12004-2 8,4
Slip:	≤ 0.5 mm	≤ 0.5 mm	12004-2 8,2

315 PLUS mixed with concentrated 3701 MORTAR ADMIX			
Classification EN 12004-1:	C2 TE S2		
	Value	Requirement	Test Method
Tensile Adhesion Strength:	≥ 1.0 N/mm ²	≥ 1.0 N/mm ²	12004-2 8,3
Tensile Adhesion Strength after Water Immersion:	≥ 1.0 N/mm ²	≥ 1.0 N/mm ²	12004-2 8,3
Tensile Adhesion Strength after Heat Ageing:	≥ 1.0 N/mm ²	≥ 1.0 N/mm ²	12004-2 8,3
Tensile Adhesion Strength after Freeze-Thaw Cycles:	≥ 1.0 N/mm ²	≥ 1.0 N/mm ²	12004-2 8,3
Open Time: Tensile Adhesion Strength after 30 min.	≥ 0.5 N/mm ²	≥ 0.5 N/mm ²	12004-2 8,1
Transverse Deformation:	≥ 5.0 mm	≥ 5.0 mm	12004-2 8,4
Slip:	≤ 0.5 mm	≤ 0.5 mm	12004-2 8,2

(Refer to next page for Working Properties)

Working Properties

Consistency:	Creamy
Wet Density:	~ 1.65 g/cm ³
Mix Ratio for C1 TE:	29% 7,25 lt water per 25 kg bag
Mix Ratio for C2 TE S1:	30% diluted latex admix (1:1 with water) 3.75 lt water + 3.75 lt latex per 25 kg bag
Mix Ratio for C2 TE S1:	30% latex admix 7.5 lt latex per 25 kg bag
Application Temperature:	From + 5°C to + 35°C
Maximum Thickness:	10 mm
Pot Life:	~ 3 hours
Open Time:	~ 30 minutes
Time to Foot Traffic:	12 hours
Time to Grouting:	12 hours
Time to Full-Service Conditions:	7 days
Final Hardening:	28 days

(at +23°C, 50% 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.

5. INSTALLATION

Surface Preparation

All surfaces should be between 5°C and + 35° C and structurally sound, clean and free of all dirt, oil, grease, paint, concrete sealers or curing compounds.

Gypsum-based panels or particularly absorbent substrates should be treated with a primer such as PRIMER PLUS or PRIMER SUPERIOR. If installing over concrete substrates, flexible cement-based waterproofing, or elastomeric waterproofing membranes, 315 PLUS should be fortified with late admix.

Mixing

Use a clean mixing pail with clean, potable water. Mix 315 PLUS with 29% of water (7.25 l of water per 25 kg of powder) to a smooth, trowelable consistency. *NOTE: For improved performance, mix with concentrated or diluted 3701 MORTAR ADMIX latex as indicated in the Working Properties section.*

Allow to slake and wait for 3-5 minutes. Remix briefly before application, without adding any more water or powder. The adhesive will remain workable for 3 hours.

NOTE: If using in wet areas, cold rooms, prefabricated structures, heated floors, and floors subjected to heavy loads, mix with concentrated or diluted 3701 MORTAR ADMIX latex for improved performance.

Application

Apply adhesive to the substrate with the flat side of the

trowel, pressing firmly to work into surface. Comb on additional mortar with the notched side, in an even, continuous layer. Use the adhesive within the open time. If the mixture is hardening, do not attempt to restore workability by adding water. Upon completion, protect finished work from rain during the 24 hours following installation. During cold weather, protect finished work from frost for the first 48 hours.

Note: Use the proper sized notched trowel to ensure the adhesive adheres to the tile, covering at least 95%-100% of the back of tile for indoor installations and 100% for outdoors installations.

Grouting

Grout installation after a minimum of 12 hours curing time at 23°C and 50% relative humidity. Conditions may change the setting and curing time.

Cleaning

Clean tools and tile work with water while mortar is fresh.

6. AVAILABILITY AND COST

Availability

LATICRETE® materials are available worldwide. For distributor information, please contact LATICRETE Europe S.r.l. a socio unico:

+39 059 535540

info@laticreteurope.com

For on-line distributor information, visit www.laticrete.eu.

Cost

Contact LATICRETE Europe S.r.l. a socio unico to obtain complete information and cost.

7. WARRANTY

The supplier warrants that the product will not deteriorate under normal conditions and use. The warranty validity of one (1) year. Contact Technical Services for further information. See 10. FILING SYSTEM:

- DS 230.13EU: 1 Year Product Warranty

8. MAINTENANCE

LATICRETE® and LATAPOXY® are products of high quality designed to achieve lasting installations and avoid maintenance, however performance and durability may depend on properly maintaining products, depending on the cleaning products used.

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling or emailing the Technical Service Hotline:

+39 059 535540

technicalservices@laticreteurope.com

Technical and Safety Literature

To obtain technical and safety literature, please visit our website at www.laticrete.eu.

Warning

The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® is unable to directly control the installation methods and conditions of products and does not assume any liability arising from their implementation. Those who want to use LATICRETE® products should 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.

LATICRETE® products are covered by a warranty within the limits of what is established by our general conditions of sale and within the limits of correspondence related to technical specifications and applicable certifications, as expressly indicated in the product data sheets, documentation, or applicable technical documentation.

10. FILING SYSTEM

Additional product information is available on our website at laticrete.eu. T