



305

DS-881-0121

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

305

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

305 is a cement based adhesive with excellent workability, designed for installation of interior wall and floor tile using the thin-bed application method.

Uses

- For interior installation of tile using the thin-bed application method
- Good for walls and floors
- Can be fortified with latex admix for improved performance

Advantages

- Single component
- Excellent workability and easy to use
- Available in ultra white or grey

Suitable Substrates

- Concrete
- Concrete Block
- Concrete Masonry
- Cement Mortar Bed

- Cement Mortar

Packaging

Grey & Ultra White
25 kg bag; 48 bags per pallet

Coverage / Consumption

- ~4 kg/m² with a 10x10 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, calcium sulphate-based, or particularly absorbent substrates should be treated with a primer.
- DO NOT use in submerged applications.
- 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

Applicable Standard

- EN12004 C1

- ISO 9001:2015 Quality Management System

Physical Properties

Basis:cement	cement, aggregates, additives		
Colour	ultra white / grey		
Apparent Density:	~ 1,20 g/cm ³		
Maximum Grain Size:	0,5 mm		
Flammability:	No		
Classification EN 12004-1:	C1		
	Value	Requirement	Test Method
Tensile Adhesion Strength:	~ 0,8 N/mm ²	≥ 0,5 N/mm ²	12004-2 8,3
Tensile Adhesion Strength after Water Immersion:	~ 0,7 N/mm ²	≥ 0,5 N/mm ²	12004-2 8,3
Open Time: Tensile Adhesion Strength after 20 min.	~ 0,7 N/mm ²	≥ 0,5 N/mm ²	12004-2 8,1
Temperature Resistance:	From -30 °C to +90 °C		

Working Properties

Consistency:	creamy
Wet Density:	~ 1.60 g/cm ³
Mix Ratio:	28% (7 lt water per 25 kg bag)
Application Temperature:	From + 5°C to + 35°C
Pot Life:	~ 180 minutes
Open Time:	~ 20 minutes
Maximum Thickness:	~ 10 mm
Time to Foot Traffic:	~ 24 hours
Time to Grouting:	~ 24 hours
Time to Full-Service Conditions:	~ 7 days
Final Hardening:	~ 28 days

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, calcium sulphate-based, or particularly absorbent substrates should be treated with a primer such as PRIMER PLUS or PRIMER SUPERIOR.

Mixing

Use a clean mixing pail with clean, potable water. Mix 305 with 28% of water (7 l of water per 25 kg of powder) to a smooth, trowelable consistency. 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.

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 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.

Grouting

Grout installation after a minimum of 24 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.:

+39 059 535540

info@laticreteurope.com

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

Cost

Contact LATICRETE EUROPE S.r.l 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:

- DS230.13EU: 1 Year Product Warranty (EN)

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. The following is a list of related documents:

- DS 230.13EU: 1 Year Product Warranty