



325 FLEX

DS-888-0521

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

325 FLEX

2. MANUFACTURER

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Castelnuovo Rangone MO, Italy

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3. PRODUCT DESCRIPTION

325 FLEX is a polymer fortified cement-based adhesive designed for rapid and easy installation of ceramic, porcelain, and non-moisture sensitive stone.

Uses

- For interior and exterior
- For walls or floors
- For ceramic, porcelain, and non-moisture sensitive stone/marble
- For thin-bed applications, thickness up to 10 mm
- Suitable for use with heated screeds

Advantages

- Minimal vertical slip — good for vertical applications
- Low VOC emissions (EC1 Plus certification) — better indoor air quality
- Excellent workability and thixotropic — easy to use
- Long open time
- Available in white or grey
- Meets requirements of EN 12004, C2 TE

Suitable Substrates

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

Packaging

25 kg bag; 48 bags per pallet

Coverage / Consumption

- 4 - 6 kg/m² with 8x10 mm notched trowel
- 7 - 8 kg/m² with 15x20 mm notched trowel

Shelf Life

Factory sealed bags of this product are guaranteed to be of first quality for twelve (12) months if stored in a cool, dry place.

Limitations

- DO NOT use on concrete constructions that have been built in less than 3 months.
- On gypsum or anhydrite based substrates, use PRIMER PLUS or PRIMER SUPERIOR beforehand.
- DO NOT use on surfaces where quick walkability is required.
- DO NOT use on wooden, metal, rubber, PVC or linoleum surfaces.
- DO NOT use with moisture sensitive stones in a damp environment.
- Use white version for white or light-coloured marble/stone.
- DO NOT mix with other cement or adhesives.
- 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

Consult SDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- Contains cement. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.

- Keep out of reach of children.

4. TECHNICAL DATA



VOC/LEED Product Information

- GEV EMICODE: EC1 Plus
- ÉMISSIONS DANS L'AIR INTÉRIEUR: A+

Applicable Standard

- EN 12004, C2 TE
- ISO 9001:2015 Quality Management System

Physical Properties

Basis:	Cement, aggregates, additives		
Color:	White or grey		
Apparent Density:	~ 1,25 g/cm ³		
Maximum Grain Size:	~ 0,5 mm		
Flammability:	No		
Classification EN 12004-1:	C2 TE		
	Value	Requirement	Test Method
Tensile Adhesion Strength:	~ 1,6 N/mm ²	≥ 1,0 N/mm ²	12004-2 8,3
Tensile Adhesion Strength after Water Immersion:	~ 1,2 N/mm ²	≥ 1,0 N/mm ²	12004-2 8,3
Tensile Adhesion Strength after Heat Ageing:	~ 1,2 N/mm ²	≥ 1,0 N/mm ²	12004-2 8,3
Tensile Adhesion Strength after Freeze-Thaw Cycles:	~ 1,3 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
Slip:	~ 0,2 mm	≤ 0,5 mm	12004-2 8,2
Temperature Resistance:	From -30 °C to +90 °C		

Working Properties

Consistency:	Creamy
Wet Density:	~ 1.60 g/cm ³
Mix Ratio:	~29% (7,25 lt water per 25 kg bag)
Application Temperature:	+ 5°C to + 35°C
Working Time:	~ 3 hours
Open Time:	~ 30 min.
Maximum Thickness:	~ 10 mm
Time to Foot Traffic:	~ 12 hours
Time to Grouting:	~ 12 hours
Time to Full-Service Conditions:	~ 7 days
Final Cure:	~ 28 days

(23°C, 50% R.H.)

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, anhydrite, or particularly absorbent substrates should be treated with a primer such as PRIMER PLUS or PRIMER SUPERIOR. Dry, dusty concrete slabs or masonry should be dampened, and excess water swept off.

Mixing

Use a clean mixing pail with clean, potable water. Do not add other aggregates or hydraulic binders to 325 FLEX. Mixing ratio: about 7,25 litres per 25 kg bag. Mix by hand or with a slow speed mixer to a smooth, trowelable consistence.

Allow to slake for 3-5 minutes. Remix briefly before application, without adding any more water or powder. The adhesive should be used within 3 hours. During use, stir occasionally to keep mix fluffy. Do not temper with water.

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 and 100% for outdoors installations or in areas subjects to heavy traffic.

For applications in areas exposed to freezing temperatures or subject to particular mechanical strains (outdoors, paving/flooring subject to heavy loads, materials with uneven thicknesses), the adhesive must be spread over both the substrate and the back of the tile (back buttering/double spreading method).

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. Grout with SPECTRALOCK® PRO PREMIUM GROUT, PERMACOLOR® SELECT, or PERMACOLOR® SELECT FINE.

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@laticreteeuropa.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 of the cleaning products used.

9. TECHNICAL SERVICES

Technical Assistance

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

+39 059 535540

technicalservices@laticreteeuropa.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
- DS 770: PRIMER PLUS Product Data Sheet
- DS 0771: PRIMER SUPERIOR Product Data Sheet
- DS 2810: PERMACOLOR® SELECT Product Data Sheet
- DS 1160: PERMACOLOR® SELECT FINE Product Data Sheet
- DS 65316: SPECTRALOCK® PRO PREMIUM GROUT Product Data Sheet