



254 PLATINUM

DS-6770-0124

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

254 PLATINUM

2. MANUFACTURER

LATICRETE Europe S.r.l. a socio unico
Via Paletti, snc, 41051
Castelnuovo Rangone MO, Italy

Telephone: +39 059 535540
Email: info@laticreteeuropa.com
Website: laticrete.eu

3. PRODUCT DESCRIPTION

254 PLATINUM is the ultimate one-step, polymer fortified, thin-set mortar for interior and exterior installation of ceramic tile, porcelain tile, thin porcelain tile, stone, quarry tile, pavers and thin brick. 254 PLATINUM, designed to just mix with water, has a long open time (E) with unsurpassed adhesion, workability, deformability (S1), and minimal vertical slip (T).

254 PLATINUM is a LATICRETE® approved substitute for 211 POWDER mixed with 4237 LATEX ADDITIVE.

Uses

- For interior, exterior, and submerged use
- For floors, walls, and facade cladding
- For installation all types of ceramics, mosaics, natural stones, marble and non-moisture sensitive agglomerates
- For areas subject to high traffic
- For large format tiles and slabs
- Please refer to the “Adhesive Selection Guide” in the product catalogue for a complete list of applications and maximum permitted sizes

Advantages

- Versatile adhesive for all kinds of applications — excellent for exterior and continuously submerged applications, such as swimming pools
- Ultimate adhesion for porcelain and glass tiles
- Long open time and working time
- High shear bond strength
- Smooth creamy formula and deformable — excellent workability and easy to use
- Equipped with antimicrobial technology — inhibits mould and bacteria growth
- Low VOC emissions — better indoor air quality
- Incredible bond to exterior glue plywood and concrete*
- Eligible for 10 year system warranty**

*See limitations.

**When used as part of the LATICRETE Europe 10 Year System Warranty (DS 230.10EU)

Suitable Substrates

- Cement Plaster
- Cement Mortar Bed
- Concrete
- Ceramic Tile and Stone
- Radiant Heated Floors
- Cement fiber board
- Cement Backer Board (Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use)
- Gypsum Wallboard
- Gypsum Plaster
- Exterior Glue Plywood (Interior Only)
- VCT and Vinyl Floors (Interior Only)
- Terrazzo
- Brick Masonry

Packaging

White or grey
25 kg bag; 48 bags per pallet

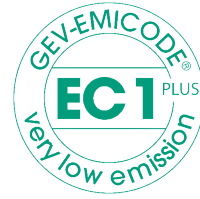
Approximate Coverage / Consumption

- 2-4 kg/m² with a 10 x 10 mm notched trowel (for standard and small format mosaics)
- 5-7 kg/m² with a 15 mm notched trowel (for medium to large size tiles)

Note: Consumption will vary depending on trowel notch size, type and size of tile and substrate.

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

- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE® Waterproofing Membrane (see Section 10 FILING SYSTEMS).
- NOT for use directly over particle board, luan, Masonite® or hardwood floors.
- For façade veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- *Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes.*

Cautions

For more information, consult the safety data sheet.

- Some marbles and other stone have low flexural strength and may not be suitable for installation over wood floors.
- For white and light-coloured marbles use 254 PLATINUM WHITE. 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 Portland cement and silica 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.
- Wait 14 days after the final grouting period before filing water features with water at 21°C.
- DO NOT take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.

4. TECHNICAL DATA



VOC/LEED Product Information

Total VOC Content of product in unused form is 0.00 g/L.

- UL GREENGUARD: This product has been certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment.
- GEV EMICODE: EC1 Plus
- ÉMISSIONS DANS L'AIR INTÉRIEUR: A+

Applicable Standard

- EN 12004, C2 TE S1
- ISO13007-1 C2 TE S1 P1
- ANSI A118.4, A118.11 and ANSI A118.15
- ISO 9001:2015 Quality Management System

Physical Properties

Basis:	Cement, aggregates, additives		
Colour:	White / grey		
Apparent Density:	~ 1,20 g/cm ³		
Maximum Grain Size:	0,5 mm		
Flammability:	No		
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
Temperature Resistance:	From -30 °C to +90 °C		

Working Properties

Consistency:	Creamy
Wet Density:	~ 1.65 g/cm ³
Mix Ratio:	~27% (6,5-7 lt water per 25 kg bag)
Application Temperature:	From + 5°C to + 35°C
Working Time:	~ 3 hours
Open Time:	~ 30 minutes
Maximum Thickness:	20 mm
Time to Foot Traffic:	12 hours
Time to Grouting:	24 hours
Time to Full-Service Conditions:	7 days
Final Hardening:	28 days

(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

The surfaces must be at a temperature between 5°C and 35°C and must be structurally stable and compact, clean, free of slab friable parts and traces of oils, greases, paints, release agents. Any height differences must be filled with special LATICRETE® mortars.

Screeds and cementitious plasters that are particularly absorbent and / or overheated by sunlight, must be saturated without leaving stagnant water on the surface. Application can be done on damp surfaces. Ceramic and stone substrates must be clean, mechanically resistant and perfectly anchored to the substrate.

Note: 254 PLATINUM does not require a minimum cure time for concrete slabs.

Expansion Joints

Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow the project design requirements, local standards or other relevant standards for positioning and sizing the joints (i.e. UNI 11493-1:2016, ANSI specification A108.01-3.7 "Requirements for Movement Joints: Preparations by Other Trades", or TCNA detail EJ-171 "Movement Joints—Vertical & Horizontal"). Do not cover expansion joints with mortar.

Mixing

Use clean, potable water and a clean pail. Pour 6.5 - 7 liters of water into pail, add a 25 kg of 254 PLATINUM while mixing with a low-speed mixer for about 3 minutes. Let the mortar slake for 5-10 min. Remix again without adding additional water or powder. The mortar should have a creamy consistency free of lumps. During use,

stir occasionally to keep mix fluffy. DO NOT temper with water.

Application

Spread a thin layer of adhesive with the flat side of the notched trowel, pressing firmly to work into surface. Apply additional product with the notched side of the trowel, leaving well-defined lines (the final thickness of the adhesive must not exceed 20 mm).

Note: Use proper sized notched trowel to ensure full bedding of the tile. Spread as much mortar as can be covered with tile in 15–20 minutes.

Back butter large tiles >8" x 8" (>200 mm x 200 mm) to provide full bedding and firm support. Place tiles into wet, sticky mortar and beat in using a beating block and rubber mallet to embed tile and adjust level. Check mortar for complete coverage by periodically removing a tile and inspecting bedding mortar transfer onto back of tile. If mortar is skinned over (not sticky), remove and replace with fresh mortar.

Grouting

Grout installation after a minimum of 24 hours curing time at 23°C and 50% RH. Use LATICRETE® cementitious grouts, such as PERMCOLOR® SELECT or PERMACOLOR® SELECT FINE. For joints resistant to stains and aggressive chemicals, use epoxy grouts such as SPECTRALOCK® PRO PREMIUM GROUT or SPECTRALOCK 2000IG.

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@laticreteeurope.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
- DS 230.10EU: 10 Year System 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 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@laticreteeurope.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.