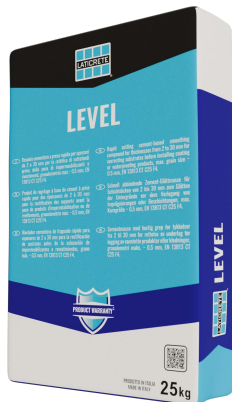




LEVEL

DS-763-1022

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

LEVEL

2. MANUFACTURER

LATICRETE Europe S.r.l. a socio unico

Via Paletti, snc, 41051

Castelnuovo Rangone MO, Italy

Telephone: +39 059 535540

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3. PRODUCT DESCRIPTION

LEVEL is a cement-based self-levelling underlayment designed for use over various substrates and can be placed from 1-12 mm in a single lift. It provides a smooth, stable surface with high mechanical resistance and good adhesion properties. Due to its flexible formulation, LEVEL is also suitable for heated screeds.

Uses

- To provide a smooth, flat, absorbent, and high strength surface for the installation of floor finishes, such as resilient flooring, resins, tile or stone
- Can be placed from 1 to 12 mm in a single lift
- For interior use
- For residential and commercial use
- Compatible with most adhesives

Advantages

- Easy to use and fast setting — walkable after 4 hours
- Low chemical emissions — better indoor air quality
- Pumpable, free-flowing — eliminates sanding and trowelling

- Long heal times for extended workability
- Suitable surface for most finished floor goods
- Compatible with most adhesives

Suitable Substrates

- Concrete
- Cement Mortar Bed
- Cement Terrazzo
- Ceramic Tile and Stone

Packaging

25 kg per bag; 48 bags per pallet

Approximate Coverage / Consumption

1.65 kg/m² per 1 mm thickness

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.
- For interior use only.
- Before installing finishes, the levelling compound must be completely dry. Moisture may be measured and evaluated using a carbide hygrometer or similar equipment.
- DO NOT install when surface and ambient temperature is below +5°C during and for the first week after application.
- Provide adequate ventilation and protect areas from direct sunlight to ensure uniform drying. DO NOT use air dehumidifiers during the initial 3 days after application.
- There is a risk of cracking through rapid water loss in heated rooms or highly absorbent substrates.
- The success of levelling install is highly dependent on the substrate conditions. It is recommended to thoroughly prepare, clean, and prime the substrate, especially for absorbent substrates (use appropriate primer such as PRIMER PLUS or PRIMER SUPERIOR).

- Non-absorbent substrates such as tile, stone or terrazzo flooring must be treated with PRIMER SUPERIOR before application.
- DO NOT exceed recommended mixing ratio as indicated in mixing instructions. Over watering will weaken product properties, and may result in cracking and hollow voids. In the case this happens, the affected areas should be mechanically removed.
- Existing construction and expansion joints should be maintained. Refer to specific finished flooring industry requirements or standards for treatment of movement joints and cracks in the sub-floor.
- Rough and porous substrates may consume more material.
- Lower temperatures, higher RH, poor ventilation, and thicker self-leveling application will extend self-leveler dry time. Higher temperatures will reduce dry time.
- Use clean water and tools.
- *Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes*

Cautions

Consult SDS for more safety information.

- Contains sand and cement. Avoid contact with eyes and/or prolonged exposure with skin. In case of contact with eyes and skin, wash abundantly 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 13813 CT C25 F4 A1fl
- ISO 9001:2015 Quality Management System

Physical Properties

Classification according to EN 13813:	CT C25 F4	
Reaction to Fire according to EN 13501-1:	A1 fl	
Basis:	Cement, aggregates, additives	
Colour:	Grey	
Apparent Density:	1300 kg/m ³	
Maximum Grain Size:	0,5 mm	
Density at 28 days:	~ 1800 kg/m ³	
	Value	Test Method
Compressive Strength (24 hours):	~ 3 N/mm ²	EN 13892-2
Compressive Strength (7 days):	~ 16 N/mm ²	EN 13892-2
Compressive Strength (28 days):	~ 28 N/mm ²	EN 13892-2
Flexural Strength (24 hours):	~ 1 N/mm ²	EN 13892-2
Flexural Strength (7 days):	~ 3 N/mm ²	EN 13892-2
Flexural Strength (28 days):	~ 4 N/mm ²	EN 13892-2
Tensile Adhesion to Concrete:	~ 1,2 N/mm ²	EN 13892-8
Shrinkage:	~ 0,3 mm/m	EN 13454-2
Thermal Conductivity λ:	1,35 W/mK	EN 12664
Temperature Resistance:	From -30°C to +90°C	

Working Properties

Consistency:	Fluid
Wet Density:	1900 kg/m ³
Mixing Ratio:	5,25 – 5,75 L of water per 25 kg bag
Application Temperature:	From +5°C to +35°C
Working Time:	~20 minutes
Minimum Thickness:	1 mm
Maximum Thickness:	12 mm
Time to Foot Traffic:	~4 hours
Time to Tile Install:	>24 hours*
Time to Marble/Stone Install:	>2 days**
Time to Installation of Wood & Resilient Materials:	>3 days***
Final Hardening:	7 days

(at 23°C / 50% RH)

*subject to residual moisture check <6%

**subject to residual moisture check <3%

***subject to residual moisture check <2%

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 substrates must be structurally sound, clean and free of dirt, oil, grease, paint, laitance, efflorescence, concrete sealers or curing compounds. Remove any loose particles by vacuuming and damp sponging. Remove old waterproofing or adhesives mechanically.

All substrates must be adequately dried and cured. Before applying leveler product, it is recommended to measure the moisture using the carbide method; the carbide hygrometer (CM device) may not exceed:

- 2.0 CM% for cement-based screeds

If needed, use appropriate primer such as PRIMER PLUS or PRIMER SUPERIOR. Refer to *Limitations* section for details.

Mixing & Preparation

Pour 5.25 – 5.75 liters of clean water into a clean mixing container. Add 25 kg of LEVEL and mix with a drill or power mixer with a spiral whisk (500-700 rpm) to obtain a smooth, fluid lump free consistency. During mixing, use a trowel to scrape excess materials from the walls of the container, to ensure the material is mixed thoroughly.

After a mixing, let the material slake for 3-4 minutes and allow the enclosed air to escape. Then remix briefly, ideally by hand.

Application

Surface and ambient temperature should be between 5°C and 35°C during application. Adequate ventilation should be provided to ensure uniform drying.

Pump or pour blended material onto substrate at an average thickness ranging between 1 and 12 mm. Immediately following placement lightly and evenly smooth the surface and pour lines using a smooth spatula or roller.

After application, protect areas from direct sunlight during drying and curing. Note that if the applied product dries too fast, it can cause cracking or detachment from substrates.

Cleaning

Clean tools with water while mortar is fresh.

Installing Finishes

Always refer to finished floor manufacturer's recommendations regarding installation instructions, surface prep, moisture conditions and compatibility. Always test performance suitability and compatibility of finished floor systems prior to their application. Sample surfaces should be installed as a field test to be representative of entire surface and tested for intended use.

Table below shows approximate relative humidity (RH) levels based on finishes to be installed:

Finish	Relative Humidity (RH)	Approximate Wait Time
Ceramic Tile	< 6%	24 h
Natural Stone	< 3%	< 6 mm: 24 h > 6 mm: 48 h
Resins & Resilient Flooring	< 2%	< 6 mm: 24 h > 6 mm: 72 h

Lower temperatures, higher RH, poor ventilation, and thicker self-leveling application will extend self-leveler dry time.

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@laticreteeuropa.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 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 771: PRIMER SUPERIOR Product Data Sheet
- DS 770: PRIMER PLUS Product Data Sheet