



Globally Proven
Construction Solutions

LEVELEX®-ECO DESIGN

Innovative, white or colored, self-leveling mortar. Hardens fast and tension-relieved with a layer thickness of 2 – 30 mm.

FIELDS OF APPLICATION

- Interior applications
- Developed for demanding environments like garages, warehouses and production areas
- Walkable after 4 hours
- applicable in layer thicknesses of 2 – 30 mm, partially up to 40 mm

CERTIFICATIONS



EN 13813

EN 13813 CT-C40-F7-AR0,5

MANUFACTURER

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MAIN FEATURES

- Decorative white/colored surface
- High abrasion resistance
- Eco-Binder technology
- Environmentally friendly
- VOC – and APEO-free
- Fast curing and low shrinkage
- Resistant against salt water and chemicals
- Pumpable

Suitable Substrates

- Concrete
- Cement based substrates

Packaging

25 Kg bag

**Available in White, Anthracite, Green, and Red*

Approximate Coverage

Approximately 1.7 kg / m² and mm layer thickness.

11.7 m² per unit

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. Store in an area with temperatures between 10 – 25°C.

Limitations

- Protect from rapid curing for at least 24 hours from strong air movement and exposure to direct sunlight.
- Some minor color differences are inevitable due to different production batches. This should be taken into account while performing work. It is necessary to work on designated sections with the same batch (see label) if a uniform color is desired.
- Due to different water addition during application or changing working techniques light color shades in the coating surface can occur.
- Please take note that this coating is a mineral/inorganic product. Product colors are not fully conformed to the RAL-Map and therefore they should only be seen as estimated classifications.
- For interior applications only
- Do not install over painted surfaces
- Do not exceed recommended mixing ratio as indicated in mixing instructions. Over watering will weaken product properties.
- Do not install LEVELEX®-ECO DESIGN over particleboard, chipboard, hardboard (Masonite®), Luan panels, interior glue plywood, asbestos, gypsum-based patching materials, asphalt, coal tar, or lightweight insulating concrete or any other dimensionally unstable materials.
- Do not install when surface temperature is below 5°C or above 45°C.
- Do not apply LEVELEX®-ECO DESIGN over waterproofing or crack isolation membranes.
- 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 on top of the dry LEVELEX®-ECO DESIGN
- Not for use in submerged applications.
- When possible conduct a mock up in order to validate performance and appearance related characteristics

(including but not limited to color, inherent surface variations, wear, anti-dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the decorative flooring system.

- Store bags in a cool, dry, shaded location prior to installation.

Warning

Consult SDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured. (add following for cementitious products).
- Contains portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- 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 SPECIFICATIONS

Applicable Standard

EN 13813

Physical Properties

Strength class	CT-C40-F7 according to DIN EN 13813
Abrasion resistance according to BCA	AR 0.5
Working temperature	Min. +5 °C, max. +35 °C
Application thickness	2 - 30 mm * Ground depressions up to 40 mm
Walkable / ready for covering* (@20°C)	4 hours*
Light Traffic	1 day
Heavy Traffic	4 days
Mixing ratio	5.5-6.0 Lt water per 25 kg powder
Compressive strength	approx. 40 N/mm ²
Flexural strength	approx. 7.5 N/mm ²
Elastic modulus (dyn.)	approx. 10.2 kN/mm ³

Bulk density	approx. 1.1 kg/dm ³
Fresh mortar density	approx. 2.0 kg/dm ³

* The surface should not be stepped on for at least 24 hours. Use disposable shoe covers or foil to protect the surface until it is sealed against dirt and moisture.

EN 13813 EN 13813 CT-C40-F7-AR0,5	
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Fire behavior	A1
Compressive strength	C40
Flexural strength	F7
Release of corrosive substances	CT

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. APPLICATION

Surface Preparation

Clean substrate to eliminate dust, dirt, oil, grease, paint or any contaminants which may inhibit bonding. Do not use chemicals to clean substrate. Remove any loose particles by vacuuming and damp sponging. Inspect for contraction joints, construction joints and cracks in the substrate which may be subject to movement after installation of a self-leveling underlayment. These must be maintained as joints through the LEVELEX®-ECO DESIGN self-leveling underlayment. For problematic substrates a 1 m² mockup should be created to ensure compatibility.

Mixing

LEVELEX®-ECO DESIGN should be mixed with 6.5 liters of water per 25 kg of material powder. Do not over water. For manual application, add powder to water and mix intensely for 2 minutes using a heavy duty drill mixer with a 20 cm wide U-shaped paddle. After initial mixing, allow the product to sit for 3 minutes and then mix again for an additional minute. If the material appears slightly thick do not add water. The material becomes more liquid after the set time.

The use of a continuous mixing pump or a semi-automatic charge mixer (e.g. M-Tec Duo-Mix 2000) may be required for

large areas. Mixing time for the semi-automatic charge mixer is approximately 4 to 6 minutes per 100 kg powder.

Application

Substrate temperature should be between 4–32°C during application and air temperature maintained between 10–32°C. Protect areas from direct sunlight. Do not use damp curing methods or curing and sealing compounds. If required to meet level tolerances, survey surface using a digital or electronic leveling device and apply level pegs as required. Adequate ventilation should be provided to ensure uniform drying.

Pump or pour blended material onto substrate. Immediately following placement lightly smooth the surface and pour lines using a pin leveler, screed rake, or trowel. Use a spiked roller on the freshly laid mortar for better adhesion and texture. When not using elevation pins, the use of a gauge rake will assist in controlling material depth. Do not expose LEVELEX®-ECO DESIGN to rolling dynamic loads, such as forklifts or scissor lifts, for at least 4 days after installation. Proper application is the responsibility of the user. Field visits by LATICRETE personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

LEVELEX®-ECO DESIGN has to be protected from rapid curing for at least 24 hours. Do not cover the finished surface. To achieve higher abrasion and chemical resistance, apply LL 100 after LEVELEX®-ECO DESIGN has cured 24 hours. Avoid puddles in the application of LEVELEX®-ECO BARRIER.

Cleaning

Mixing device (drill mixer or pump), trowel, spiked shoes, spiked roller and screed rake or pin leveler should all be washed clean and dried before and after application.

6. AVAILABILITY AND COST

Availability

LATICRETE AND LATAPOXY materials are available worldwide. For distributor information, please contact LATICRETE EUROPE S.r.l. Telephone +39 059 557680.

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

Cost

Contact a LATICRETE and LATAPOXY closer distributor 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 Support for further information.

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 SERVICE

Technical assistance

For information contact: +39 059 557680
info@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 unable to directly control the installation conditions and modalities of application of products, do not assume any liability arising from their implementation. Those who want to use the LATICRETE products must 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.