



LEVEL

LEVEL is a cement-based easy-to-use, self-leveling underlayment designed for use over various substrates including concrete and ceramic tile. LEVEL provides a smooth and flat surface on which finished floor goods can be installed. LEVEL can be placed from 3–40 mm in a single lift.
(Previously know as SC 500, 23kg)



ADVANTAGES

- Pourable and pumpable
- Inorganic; will not contribute to mold/mildew growth
- Suitable surface for most finished floor goods
- Can be applied directly over concrete testing at RH of 95% or less per ASTM F2170
- It can apply to 40mm in a single lift.

USES

- Interior only
- Levelling of concrete substrate
- Provide smooth flat substrate for finished goods

STANDARDS

Applicable Standard : EN13892-2 | ASTM C307

MANUFACTURER

LATICRETE Middle East LLC.
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Packaging - 20kg bag; 72 bags per pallet

Approximate Coverage*

One 20kg bag mixed with 4.4 - 4.6 litres of clean water will cover approximately 3.3 – 3.5 m² at 3mm thick.

* Coverage provided is approximate and is for estimation. Actual coverage depends on the job-site conditions, application methods, wastages, etc

Suitable Substrates (Interior Only)

- Concrete
- Vinyl Tile
- Cement Terrazzo
- Exterior Glue Plywood
- Ceramic Tile and Stone
- Cement Mortar Beds

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for twelve (12) months** if stored off the ground in a dry area.

** High humidity will reduce the shelf life of bagged product.

Limitations

- Do not install LEVEL 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.
- For interior use only.
- Do not install when surface temperature is below 40°F (4°C) or above 90°F (32°C).
- Do not install over painted surfaces.
- Do not exceed recommended mixing ratio as indicated in mixing instructions. Over watering will weaken product properties.
- Never mix with cement or admixtures.
- Do not apply LEVEL 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 LEVEL.
- Not for use in submerged applications.

Cautions

Before using any product:

- Read and understand the Product Data Sheet and Material Safety Data Sheet
- Check www.laticrete.me for any technical bulletins or updated information about the product and its application.
- Contact your local Technical Sales Representative with any questions.
- Protect finished work from traffic until fully cured.

- 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.
- Consult MSDS for detailed safety information.

TECHNICAL DATA

Pour Depth	1/8" to 1.5" (3–40 mm) Consult Technical Services for depths over 1.5" (40 mm)
Walkable	3-4 hours at 70°F (21°C)
Tensile Strength (ASTM C307)	1.0–1.2 MPa
Flexural Strength (EN13892-2) 28 Day Cure	6–8 MPa
Compressive Strength (EN13892-2) 28 Day Cure	27-32 MPa
Set Time (ASTM C1708)	Initial @ 60-90 min. Final @ 3-4 hrs.

Specifications are subject to change without notification. Technical data shown in product data sheets and technical data sheets are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance and test results will depend on installation methods and site conditions. Field test results will vary due to critical job site factors.

INSTALLATION

Surface Preparation

- Refer to TDS 230D Substrate Preparation and Primer Guide for more detailed surface preparation instructions.
- 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 self-leveling underlayment.
- For exterior glue plywood substrates use 3.2# galvanized diamond metal lath or Decoupling Mat.
- Maintain substrate temperature is between 40–90°F (4–32°C) and air temperature between 50–90°F (10–32°C) during installation and throughout drying. Provide adequate ventilation to ensure uniform drying.
- All concrete surfaces must meet a minimum of ICRI CSP Profile of 3.

Priming

Use LEVEL Primer with every application of self-leveling underlayments. See DS 550.me and TDS 230D Substrate Preparation and Primer Guide for more detailed dilution, approximate coverage and application instructions.

Mixing

LEVEL should be mixed with 4.4–4.6 L of water per 20 kg bag. Do not over water. For manual application, add powder to water and mix for 2–3 min with a heavy duty drill (650 rpm) to obtain a lump free mix for multiple bag mixes increase mixing time as needed. LEVEL can also be used in most pump equipment. Please consult with a representative to verify equipment compatibility. A flow test should always be performed to ensure that the mix is homogeneous and free from separation. The ideal flow range for LEVEL is 10–11" (250–280 mm) using a Flow Test Kit. See TDS 235D – Flow Test Method - for more detailed instructions on performing flow tests.

Application

Substrate temperature should be between 40–90°F (4–32°C) during application and air temperature maintained between 50–90°F (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 at an average thickness ranging between 1/8"- 1.5" (3–40 mm) for all surfaces except structural lightweight concrete where a minimum thickness of 5/8" (16 mm) and wood substrates minimum thickness of 1/2" (12 mm) must be maintained. Immediately following placement lightly smooth the surface and pour lines. When not using elevation pins the use of a gauge rake will assist in controlling material depth. Do not expose self-leveling underlayments to rolling dynamic loads, such as forklifts or scissor lifts, for at least 72 hours 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.

AVAILABILITY AND COST**Availability**

LATICRETE® materials are available worldwide. For distributor information, please contact LATICRETE Telephone: For on-line distributor information, visit www.laticrete.com

Cost

Contact a LATICRETE® closer distributor to obtain complete information and cost.

WARRANTY

The supplier warrants that the product will not deteriorate under normal conditions and use. The warranty validity of six (6) month. Contact Technical Support for further information.

MAINTENANCE

LATICRETE® products are 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.

TECHNICAL SERVICES**Technical assistance**

For information contact:

enquiry@laticrete.me

Technical and safety literature

To obtain technical and safety literature, please visit our website at www.laticrete.com

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.