



TERRAZZO – EP

Terrazzo-EP is an epoxy-based two-component product developed as part of the LATICRETE flooring systems. When combined with attractive stones, glass, color paste, or other aggregates, it creates a chemical-resistant, abrasion-resistant, and aesthetic flooring.



FEATURES/BENEFITS

- High resistance to compression, abrasion, and chemicals.
- Very low permeability
- It has no joint (only accompanying joints in the concrete floor)
- Easy maintenance (allows repainting on the coating already worn out)
- Excellent aesthetics and ease of cleaning

USES

TERRAZZO - EP can be used for the following areas:

- Hotels, casinos, convention centers.
- Public building, museums.
- Sport arenas, gym, and others.
- Restaurants, cafeterias, and lunch areas.
- Commercial areas such as showrooms, shops, and places where there is public access.

MANUFACTURER

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PACKAGING

Available pack sizes:

- 6 kg unit (Part A = 5 kg, Part B = 1 kg)
- 24 kg unit (Part A= 20 kg, Part B = 4 kg)
- Colour paste is available separately upon request in pack sizes: 0.45 kg and 0.9 kg.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for 1 year if stored off the ground in a dry area.

Storage Condition

The TERRAZZO - EP should be stored in clean, dry, ventilated areas protected from the sun.

The temperature of the storage area should be between 8°C and 32°C, avoid excessive heat and freeze of the material.

Consumption

- Primer: Guard Prime EPM: 0.3 -0.35 kg/sqm/coat
- Sealer: Guard PU Clear: 10 - 12 sqm/liter/coat
- Terrazzo EP: 6 kg unit/m² at 10 mm thickness as per mix design guidelines to attain 8 mm final thickness after grinding.

Note: Actual consumption shall be determined by preliminary trial area based on site conditions. Refer to the statement for further details.

Suitable substrates: Concrete

Limitations

- During hot climatic conditions, conditions product overnight at 20 - 25°C to retain workability and pot life.
- For exterior area, it is recommended to work during evening time when the temperature is falling.
- The application area should be shaded.
- Protect it from rain for initial 24 hrs. min. and from surrounding dust for initial 3 - 4 hours.
- Do not water cure.
- Do not install 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 over concrete having rising dampness, use Guard Primer EPM two coats as a moisture barrier primer.
- Do not install overpainted surfaces.
- Do not exceed recommended mixing ratio as indicated in mixing instructions.
- Recommended Glass fiber mesh- Aqua barrier Net over the concrete for crack suppression and mitigation and preventing telegraphing to the overlying terrazzo system.
- Do not apply over waterproofing or crack isolation membranes.

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.
- Consult MSDS for more safety information.
- Protect finished work from traffic until fully cured.
- Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.

INSTALLATION

Surface Preparation

Prepare all surfaces to sound, clean, dry, and free from loose material, efflorescence, laitance, curing compounds, dirt, oil and grease. All new concrete floors should be allowed to be cured for at least 28 days. Ensure moisture content of substrate below 4%. The floor must be shot blasted or diamond grinded to remove the weaker and friable elements on the concrete surface and to roughen the surface to ensure excellent mechanical adhesion. Existing joints must be respected.

The surface must be well levelled to avoid over consumption of materials. It is recommended to use moisture barrier coat to prevent any moisture from substrate and affect bonding.

Priming

Apply Epoxy Primer EPM by brush, roller, or squeegee. It also serves as a moisture barrier for substrate having >5% moisture content. Refer Epoxy Primer EPM data sheet in conjunction with method statement. Highly porous and absorbent substrate may need an additional coat of primer.

Fiber mesh reinforcement

As per standard practice, apply glass fiber mesh onto first coat of primer whilst still wet, to bridge static cracks or joints. Roll down fiber mesh with additional coat of primer and broadcast immediately quartz sand 2 - 4 mm size at a rate of 0.5 - 0.6 kg /sqm for mechanical key. Allow to dry overnight or 24 hrs. depending upon site conditions. For further assistance, please contact Laticrete Technical Service.

** Recommended Aqua barrier Net for crack suppression and mitigation for Terrazzo EP system.*

Mixing

Terrazzo -EP is supplied as Base component A and Hardener component B in pre weighed kit, with separate color paste. Always make a good mixing with components A and B to ensure a complete reaction and then add the aggregates.

For using color paste

Add supplied color paste in base component A and mix to a uniform color consistency prior to mixing Hardener component B and aggregates.

Place terrazzo mixture on prepared surface. Spread with flat towel or a gauge rake using the largest marble chip as a proper thickness guide. Trowel to thickness at least 2 mm more to achieve the desired thickness after grinding and polishing. Power trowel is highly recommended to ensure a level surface and good compaction for large areas.

Note: Terrazzo EP resin can be combined with a wide range of fine and coarse filler or aggregate chips (marble or granite), colored or glass chips and metallic particles as per desired finish. Application properties, coverage rate and appearance will depend upon type of filler & aggregates used. Installer has to determine the mix design for a suitable finish and consistency. Final mix design to be determined based on series of preliminary trials before commencing final application.

Mix Design guidelines:

Components	Kgs
Terrazzo EP-Part A	5
Terrazzo EP-Part B	1
Colour paste	0.45
Silica flour 45 microns	10 - 12
Aggregates (Graded size from 2-10 mm)	12 - 14

Note: Mix design is for guideline purpose only. A trial mix shall be conducted to achieve desired consistency and finish. Final mix design is to be determined based on series of preliminary trials before commencing final application.

Finishing:

Allow cure for 48 - 72 hrs. minimum prior to grinding. Ambient temperature conditions may affect curing time; higher curing time would be required at lower temperatures. Grinding with coarse metal bond diamond tool 30/40 grit will remove scratches and imperfections. Any pinholes observed during grinding can be filled with mixture of supplied unit with color paste using flat trowel, scrapper, or squeegee.

Remove excess grout with final grinding grit. Always grind progressively with grit number sequences as 40, 80, 150, 250, 400, 800. Refer grinding machine manufacturer details /guidelines.

Sealing:

Post grinding & polishing, clean the surface thoroughly and apply a protective sealer Guard PU Clear (Matt or Gloss). The Sealer coat is highly recommended to make the terrazzo surface more resistant against staining to various chemical spillages.

Technical Data

Characteristics	Values
Density (mixed) kg/L	1.55 ± 0,05
Pot life at 25°C, min	35± 5
Color	Clear Color paste-STD colors
Curing time (initial)	10-12 hrs.
Bond Strength over primed Concrete, ASTM D 4541- 7 days	>2.5 MPa (Concrete Failure)
Compressive Strength*, ASTM C579- 7days	>65MPa
Flexural Strength*, ASTM C 580- 7 days	>20 MPa
Chemical Resistance*, ASTM D 1308	Resistant to various chemicals

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.

**Note: Testing of resin part A + part B without aggregates.*

For list of chemicals resistance, please contact LATICRETE Technical Service.

AVAILABILITY AND COST

Availability

LATICRETE® materials are available worldwide.

For distributor information,

please contact us by email at: enquiry@laticrete.me or, visit www.laticrete.me

Cost

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

WARRANTY

The supplier warrants this product will not deteriorate under normal conditions and use the warranty validity of one (1) year. The product is subject to the terms and conditions stated in the LATICRETE® Product Warranty. Please consult our 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 us by email at:

technicalservice@laticrete.me

Technical and safety literature

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

Warning: The information and the instructions in the data sheet, although based on knowledge gained through years of application, 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 methods and site conditions.