



TERRAZZO CMTX

TERRAZZO CMT X is a special cement-based easy-to-use, binder mix for application of terrazzo flooring in external and also internal areas. When combined with natural or synthetic coloured stones (aggregates), marble, recycled glass pieces, colorpigments etc., it creates a seamless, monolithic and aesthetic flooring.



ADVANTAGES

- Easy to mix with various aggregates
- Suitable for external areas
- High mechanical strength

MANUFACTURER

LATICRETE Middle East LLC.
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USES

- Polished terrazzo tops
- Exterior areas
- Landscaping
- Surfaces,
- Swimming pool deck areas
- Showrooms
- Commercial centers
- Buildings
- Park and street furnitures,
- Architectural items

Packaging

20kg bag; 72 bags per pallet

Coverage

Coverages will depend on the quantity and type of aggregate added. Also, coverages are related to the job-site conditions, application methods, wastages, etc.

Please consult LATICRETE technical service for more information.

Suitable Substrates

- Concrete

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one year if stored off the ground in a dry area. High humidity will reduce the shelf life of the bagged product.

Storage Condition

The TERRAZZO – CMTX 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 freezing of the material.

Limitations

- Hot climatic conditions, use chilled water to retain flow and workability.
- It is recommended to work during evening time.
- The application area should be shaded.
- Protect it from wind and direct sunlight. Alternatively it can be protected by placing plastic sheet.
- 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 surface temperature is below 4°C or above 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.
- Recommended Glass fibre mesh- Aquabarrier 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
- 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

TECHNICAL DATA

Physical Properties (only binder mix) at 25°C

| | |
|---|---|
| Water | 20% approx. |
| Mixed Density (kg/l) | 2.00 |
| Pot Life | 1 hour (approx.) |
| Pull-off (bond) strength (BS EN1015-12) | > 2.5 N/mm ² |
| Thermal compatibility (BS EN 13687) freeze-thaw cycling with de-icing salt immersion | No sign of cracks, peeling, blistering, delamination, bubbling or other surface defects |
| Pull-off (bond) strength after thermal compatibility | > 2.5 N/mm ² |
| Coefficient of Water absorption (BS EN 1015-18) | ≤0.17 kg/cm ² min ^{0.5} |
| Flexural Strength (BS EN196-1) 28 Day Cure | > 9.0 N/mm ² |
| Compressive Strength (BS EN 1015-11) 28 Day Cure | > 40 N/mm ² |
| Water Soluble Chloride (Cl) (BS EN 1015-17) | < 0.01 % by wt. |
| Set Time (ASTM C1708) | Initial 4-5 hour (approx) Final 6-7 hour (approx) |

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

- 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

- 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.
- The minimum tensile strength of the substrate must be at least 1,5N/mm².
- Inspect for contraction joints, construction joints and cracks in the substrate which may be subject to movement.
- In case of existing cracks on the substrate, it must be repaired with suitable repair product.
- Maintain substrate temperature is between 4–32°C and air temperature between 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.

Mixing

A forced action mixer, pan mixers with static pans is the most suitable mixer for mixing purpose.

Add Terrazzo CMTX powder, pigment/colour in the mixer along with aggregates and add the 80% of required water while stirring. After 3 – 4 mins mixing, check for mix consistency and adjust with balance water to ensure a homogeneous, cohesive mix without any bleeding/segregation.

Note: The recommended ratio of powder to aggregate is 1:1. It is advisable to use aggregates that range in size from 2 to 10 millimeters. Mix design shall be solely determined by mix consistency without any bleeding and segregation. The mix design shall be finalized based on the trial scale prior to onsite application.

Consult LATICRETE technical service for the selection of the aggregates and any pigment dosage at the site.

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.

* Recommended Aquabarrier Net for crack suppression and mitigation for Terrazzo CMTX system.

Application

The minimum thickness of TERRAZZO – CMTX should be 12mm – 18mm in a single lift.

Pour the mix in the prepared substrate, use trowel to spread evenly. Then finish with levelling bar or any other suitable tool. After proper curing for polished finish a suitable grinding machine must be used. If any fine holes appear during grinding, the TERRAZZO CMTX fine powder mixed with water can be used as filler.

Sealer coat:

Recommended Laticrete Guard PU Clear or Finish PU WB, available in Semi gloss and Matt finish, to be applied for protection against stain and abrasion.

Note: Follow detailed method statement and guidelines prior to application.

Cleaning

Clean all tools with water immediately after use.

Hardened material can only be removed mechanically.

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 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:

enquiry@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 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.