SCREED EP

Screed EP is a multi-component epoxy-based screed with high mechanical strength for high impact resistance, chemical resistance, abrasion resistance, and a durable flooring system. It is a suitable repairs mortar for patch repairs, manhole benching, crack filling, joints edge profile etc.

FEATURES/BENEFITS

- Workable pot-life
- High mechanical strength.
- Excellent bond strength
- Impact & Chemical resistant
- Non-slip finish for traffic
- Solvent free

USES

- Heavy-duty flooring for engineering and steel plants
- Loading bays
- Food and beverages industries
- Production shop floors
- Chemical and pharmaceutical industries

MANUFACTURER

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PACKAGING

- 24 kg set consisting of Part A (Base)= 1.39 kg, Part B (Hardener)= 0.58 kg , Part C (Filler)= 21.7 kg with optional color paste available in standard colors (0.34 kg)

Suitable Substrates

- Concrete

Approximate Coverage: Approx. 2.4 m²/ 12 Liter set at 5mm thickness.
Actual coverage may vary due to texture and level of the substrate and site conditions.

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. Extreme storage conditions will reduce the shelf life.

Storage: Store in dry and cool conditions below 30⁰ C.

Cautions

Before using any LATICRETE product:

- Consult SDS for more safety information.
- 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.

Limitations

Can not be applied over substrate having rising dampness and damp surface or having relative humidity greater than 75% as measured in accordance with BS 8203. The moisture content of the substrate shall not be higher than 5%. For higher moisture a suitable moisture barrier like Guard Prime EPM is recommended.

TECHNICAL DATA

Physical Properties

Components	Base, Hardener, Filler, and optional colour paste
Solid content	~100%
Mix Density	2.4 ± 0.05
Setting time	10 - 12 hrs.
Full cure	5 - 7 days 30ºC - 20ºC
Pot life	30 – 45 mins @ 30ºC - 20ºC
Overcoating time	12 – 24 hrs.
Bond strength with Guard Prime EPM, ASTM D4541, 7 days	> 3.0, Concrete failure
Compressive Strength, ASTM C579, 7 days	>85 N/mm²
Flexural strength @ 7 days : (BS 6319, Pt 3)	>25 N/mm²
Tensile strength @ 7 days : (BS 6319, Pt 7)	>15 N/mm²
Abrasion resistance (ASTM D4060) H22 wheel,1000 gms,1000 cycle)	< 0.5 gm mass loss
Application temperature	+5 to +35°C

Technical data shown are typical but reflect laboratory test procedures conducted in laboratory conditions at 23±2ºC and 55±5 % relative humidity.

INSTALLATION

Surface Preparation

The concrete substrate must be 28 days old and have compressive strength (minimum 25 N/mm2) with a minimum pull-off strength of 1.5 N/mm2. Ensure the substrate is clean, dry, and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. Concrete substrates must be prepared mechanically or by scarifying equipment to remove cement laitance and achieve an open textured surface.

Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.

Remove all dust, and loose and friable material from surfaces preferably by brush or vacuum before application of the product.

The provision of Expansion joints shall be reflected on the screed and filled to the required level with a suitable sealant as per the designed movement accommodation factor (MAF).

Primer: Apply Guard Prime EPM over the prepared concrete surface. For a more porous and absorptive surface, a second coat of primer is recommended. And the screed shall be laid while the primer is wet and tacky. If the primer is tack-free an additional coat of primer shall be applied, and the procedure is followed.

Mixing

Screed EP is supplied in a pre-weighed kit consisting of Part A- Base, Part B- Hardener, and Part C- Filler with an optional colour pack.

For complete mixing, decant part A in a suitable container and mix with a low-speed drill and paddle, add colour paste for a desired colour screed and mix for 1- 2 mins then add part B and mix for 1 - 2 minutes and then add Part C gradually and mix for 2 - 3 minutes to a homogenous and semi-dry consistency.

Application

Apply the mixed material with the trowel and screed bar to a minimum of 5 mm thickness. Mixed material can also be spread on the floor using a screed box. Strike off excess mortar and level with a straight edge. Trowel to the desired finish. The material should be tamped with a wooden float to ensure complete compaction and finally finished to a closed even texture using a steel trowel. Avoid excessive trowelling to prevent blotch/patchy appearance. Screeding rods are useful to maintain a minimum compacted thickness of 5mm.

Coving
Screed EP can be used for coving preparations at the floor and wall junctions.

Sealing
Screed EP usually provides a rough and grainy surface texture hence for higher cleaning service requirements Screed EP surface may be sealed with either Guard EP or Guard PU Clear.

Cleaning: Clean tools and mixer with suitable cleaning solvent immediately after use.

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 that this product will not deteriorate under normal conditions and use, with a 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.

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 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. The results shown are typical but reflect the test procedures used. Actual field performance will depend on the installation method and site conditions.