

MAXTREAT[®] EC

High Strength Epoxy Concrete



Maxtreat[®] EC is a solvent free, epoxy based repair concrete, which is supplied as three component system and the coarse aggregate in the ratio recommended to be added at site.

Uses

For the fast and permanent reinstatement of damaged concrete, particularly where high strength, abrasion, impact and chemical resistance are required. The product is designed for horizontal applications. It is ideally suited for reinstatement of defective concrete surface in bridges, dams, foundations, slabs, joints in highways, concrete runways and for use as a bedding material.

Benefits

- Solvent free
- Dimensionally stable hardening
- High compressive and abrasion strengths
- Curing unaffected by humidity
- Suitable for both damp and dry surfaces
- Rapid hardening at low temperatures
- Impact and dynamic load resistant

Technical Support

Thermax offers a technical support service to specifiers, end users and contractors, as well as on-site technical assistance in locations all over the country.

Mix Proportions

Form

Base (B)	Liquid
Hardener (H)	Liquid
Fine Filler (FF)	Graded Sand
Coarse Aggregate (CA)	10 mm down graded
Aggregate to be added at Site	Granite / Basalt

Mixing Ratio

B	H	FF	CA
4.537	2.145	20.818	30

Properties

Density	2.2-2.4 kg/l
Pot Life at 35°C	30 minutes
Compressive Strength at 7 days	> 90 N/mm ²
Flexural Strength at 7 days	20 N/mm ²
Adhesive Bond Strength to Concrete	3 N/mm ²
Recommended Thickness per Layer	Min. 20mm

Instructions for Use

Preparation

The surface shall be cleaned and any dust, unsound material, plaster, oil, paint, grease, corrosion deposits or algae shall be removed. The surface shall be roughened and any laitance shall be removed by light scabbling or grit blasting.

Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of a proprietary degreaser.

Substrate Priming

The substrate should be primed using Tecfloor[®] PR. The primer should be mixed in the proportions supplied, adding the entire contents of the 'hardener' tin to the 'base' tin. The two components should be thoroughly mixed together, for 3 minutes. The mixed primer should be scrubbed well into the prepared substrate, taking care that all imperfections in the surface are properly coated and avoiding 'puddling' in depressions. If the primer is absorbed into the substrate, a second coat should be applied before continuing. **Maxtreat[®] EC** can be applied as soon as the primer has started to gel but still has surface 'tack'. This is normally between 30 minutes and 4 hours dependent on the ambient and substrate temperatures. The usable life of the mixed primer is approximately 30 minutes at 35°C.

Mixing

Care should be taken to ensure that Maxtreat[®] EC is thoroughly mixed to produce a fully homogenous, trowellable concrete.

The 'hardener' and 'base' components should be stirred thoroughly in order to disperse any settlement before mixing them together. The entire contents of the base and hardener are emptied into a suitable container and mixed for 30seconds. Slowly fine and coarse aggregate shall be added under mixing, using a forced action mixture until a homogenous material is obtained.

Application

While the primer is still tacky, the mixed concrete shall be spread and then trowelled firmly into place.

Finishing

Maxtreat[®] EC is levelled and finished with a steel trowel. The completed surface should not be overworked.

Cleaning

All tools and equipment shall be cleaned immediately after use with Cleaning Sol, solvent.

Health & Safety Instructions

Maxtreat[®] EC and Cleaning Sol should not come in contact with skin or eyes, or be swallowed. Adequate ventilation shall be ensured and inhalation of vapors shall be avoided. Some people are sensitive to resins, hardeners and solvents. Suitable protective clothing, gloves and eye protection shall be worn. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier cream provides additional skin protection. In case of contact with skin, it shall be removed immediately with resin removing cream followed by washing with soap and water. Solvent should not be used. In case of contact with eyes, it shall be rinsed immediately with plenty of clean water and medical advice shall be sought immediately. If swallowed, medical attention shall be sought immediately - Vomiting should not be induced.

Fire

Maxtreat[®] EC is non-flammable.

Cleaning Sol is flammable. It shall be kept away from sources of ignition. Smoking is prohibited during handling / application of the product. In the event of fire, it shall be extinguished with fire extinguishers like carbon-dioxide or foam. Use of water jet is not suggested.

Storage

Shelf Life

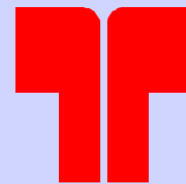
All products have a shelf life of 12 months below 35°C if kept in a dry store in the original, unopened packs.

Storage Conditions

Store in dry conditions in the original, unopened bags. If stored at high temperatures, the shelf life may be shortened.

Packing

Maxtreat[®] EC is available in 14ltr packing. (Without coarse aggregates)



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Thermax Business Portfolio

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Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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