



STERLING TechnoFinish® SolidCoat HT 130

High build two component, heat resistant epoxy resin
Ceramic modified coating system.

Description:

TechnoFinish® SolidCoat HT 130 is a versatile two component solvent free epoxy resin ceramic modified coating system specially designed for the protection of concrete, metal surface against abrasive and corrosive agents. TechnoFinish® SolidCoat HT 130 provides a durable and impervious coating that has excellent water immersion properties and have excellent resistance to a wide range of chemicals with a low friction finish leading to improved efficiency.

TechnoFinish® SolidCoat HT 130 utilising very robust ceramic technology providing a hard wearing, abrasion and high temperature resistant (up to 130°C).

Application Includes:

TechnoFinish® SolidCoat HT 130 is ideally suited for use in the areas where a high degree of resistance to chemicals, oils and grease is required such as:

- Protection of concrete sea water channels.
 - Water treatment plants.
 - Boiling water tanks and water stations.
 - Desalination plants.
 - Heavy duty protective coating for concrete surfaces.
- Features and Benefits
- High-build.
 - Excellent resistance to thermal shock and freeze-thaw cycles.
 - Superior abrasion and chemical resistance.
 - Ambient-temperature cure.
 - Can be applied without primer on new application and may be applied over existing epoxies and phenolic coatings.
 - Solvent free.
 - Corrosion resistant.
 - Resist thermal shock and freeze-thaw cycles.
 - Temperature resistance- Withstands temperatures up to 130°C.

Packaging

TechnoFinish® SolidCoat HT 130 is supplied in 5kg, 10 kg and 20 kg composite packs. Packaging size may vary subject to local regulations and requirements.

Shelf Life & Storage

24 months from date of production if kept in undamaged and unopened original sealed containers and store at protected area from direct sunshine in dry and cool condition at temperatures between 10°C-30°C.

Coverage

Approximately 1 kg/3 m² per coat. Two coats should be applied to achieve 400 microns dry film thickness.

Directions for use

Substrate preparation

Concrete substrate should be a minimum of 25N/mm², free from laitance, dust and other contamination. The substrate should be dry upto 75% RH as per BS8204 and free from rising damp and ground water pressure. The long term durability of any resin floor system is determined by the adhesive bond achieved between the flooring material and the substrate. It is most important therefore that substrates are correctly prepared prior to application.

Steel surfaces

Steel surfaces should be grit blasted to reach a bright finish meeting the SA21/2 standard. TechnoFinish® SolidCoat HT 130 should be applied as soon as possible after blasting to avoid rust forming.

Priming

Priming is not normally required provided the substrate is sound, untreated and good quality nonporous concrete. If any doubts exist of the quality of the concrete, or if it is porous it should be primed with TechnoSeal® EP *. Contact the Sterling Technotrade Technical representative for advice. TechnoSeal® EP should be mixed in the proportions supplied. Add the entire contents of the hardener can to the base can. When thoroughly mixed, preferably using a slow speed drill and paddle, the primer should be applied in a thin continuous film, using rollers or stiff brushes. Work the primer well into the surface of the concrete taking care to avoid ponding or over application. The primer should be left to achieve a tack-free condition before applying the top coat. A second coat of primer may be required if the substrate is excessively porous.

Mixing

The base and hardener components of TechnoFinish® SolidCoat HT 130 should be thoroughly stirred. The entire contents of the colour pot should be poured into the base container and the two materials mixed thoroughly, then add the hardener component and mix for at least 3 minutes. The use of a heavy-duty slow speed, flameproof or air driven drill fitted with a mixing Paddle is desirable. Mix these components in the quantities supplied taking care to ensure all containers are scraped clean. Do not add solvent thinners at any time.

Standard application

Two coats of TechnoFinish® SolidCoat HT 130 be applied. The product can be applied using brush, roller and can be spray applied. First coat should be applied uniformly onto the surface at 200 microns thickness. The second coat should be applied similarly to the first coat between 8 hours and 20 hours (@ 25°C) after applying the first coat. For exposed areas, it is recommended that TechnoFinish® SolidCoat HT 130 is covered by a polyurethane protective coating from TechnoFlex® range of products.

Technical support

Sterling Technotrade offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer onsite technical assistance and dedicated specification assistance for the specific projects and locations.

Limitations

TechnoFinish® SolidCoat HT 130 should not be applied on to surfaces known to, or likely to suffer from, rising dampness, potential osmosis problems or have a relative humidity greater than 75% as measured in accordance with BS 8203 Appendix A, or by a Hammond concrete/mortar moisture tester.

*STIPL does not recommend acid etching as a method of floor preparation. If used, the method should be approved by the project consultant.

In common with all epoxy materials, some slight shade changes may be experienced over the long term when placed in adverse exposure conditions. Any such change in shade is not regarded as being detrimental to performance.

Health and Safety instructions

Some people are sensitive to resins so gloves and a barrier cream should be used when handling TechnoFinish® SolidCoat HT 130. If contact with the resin occurs, it must be removed, before it hardens, with a resin removing cream. Follow by washing with soap and water. Do not use solvent. The use of goggles is recommended but should accidental eye contamination occur, wash thoroughly with plenty of water and seek medical treatment immediately.

Ensure adequate ventilation in volume and pattern in working area and do not smoke during use. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals. Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment.

Product only for professional use.

Additional Information: Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd -The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

*Separate datasheet are available on these products.

Cleaning

Tools and equipment should be cleaned with TechnoFix® Eco Cleaner or TechnoFix® CleanzolPlus immediately after use. Cured material can only be removed mechanically. Spillages should be absorbed with sand or sawdust and disposed of in accordance with local regulations.

Typical Properties at 25°C

Colour	Grey
Solids by weight	100%
Mixed density	1.6 ± 0.05 g/cm ³
Pot life	60 min @ 25°C
Touch dry	6 - 8 hr
Re-coatable	8 - 20 hr
Full cure	7 days
Bond strength (ASTM D4541-85)	3.5 MPa (concrete failure)
Bond strength after 200 hours water boil (ASTM D4541-85)	2 MPa (concrete failure)
Water absorption (ASTM D570)	< 0.1%
Physical effects after 600 hours water boil	No cracking, chalking, softening, blistering or deboning.

*All technical data stated herein is based on tests carried out under laboratory conditions @25°C and at 50% Relative humidity.

DISCLAIMER: The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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