



TechnoCoat® SF 500

Rust Remover And Cleaner For Steel Reinforcement Bars
And Other Steel And Iron Surfaces.

Description:

TechnoCoat® RR100 is a single component sulphate and chloride free liquid that removes rust and prevents further rusting of steel structures by providing a passivating coat. TechnoCoat® RR100 performs rust removal and rust prevention in one operation in mild conditions.

Application Includes:

TechnoCoat® SF 500 is used as protective, decorative, high chemical resistance and hard wearing floor coating system for a wide range of applications including:

- General food processing and manufacturing plants.
- Soft drink and beverage production areas.
- Aircraft hangars.
- Car parks.
- Show rooms.
- Production, maintenance and assembly areas.
- Warehouses.
- Dairies production areas.

Features & Benefits:

- Chemical Resistant- Protects against a range of chemicals used in manufacturing processes.
- Solvent Free- Solvent free, low in VOCs and environmentally friendly.
- Hygienic & Easy to Clean- The seamless and gloss finish allows the system to be cleaned easily.
- Hard-Wearing- Hard-wearing & abrasion resistant suitable for medium traffic areas.

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.

Cleaning

Tools and equipment should be cleaned with TechnoFix® Eco Cleaner 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.

Packaging

TechnoCoat® SF 500 is supplied in 20 kg composite packs. Packaging size may vary subject to local regulations and requirements.

Applications Instructions:

Substrate Preparation

The substrate must be clean, dry, even, dense and free from oil, grease, dust and other contaminants. A clean surface will ensure maximum adhesion between the substrate and the coating. Concrete floors must have a minimum compressive strength of 25 N/mm² and a maximum concrete relative humidity of 75% (max. moisture content of 4%), relative humidity can be measured using a hygrometer. Concrete relative humidity should be less than 75% for concrete 28 days old or more.

Surface Preparation

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment. Acid etching can be used only in well ventilated areas. Areas deeply contaminated by oil or grease, such areas should be treated by hot compressed air.

New concrete floors

The base should be a minimum of Grade RC30 of BS 8500- 2: 2002 and should not contain a water repellent admixture. The surface strength when assessed using a rebound hammer should be above 25 or the surface tensile strength should exceed 1.5 MPa.

The laitance and any surface sealer or curing membrane should be removed by mechanical means such as shot blasting or grinding to expose the coarse aggregate. After surface preparation, all loose debris and dirt should be removed by vacuum equipment. For concrete bases in contact with the ground, a dampproof membrane should have been incorporated into the slab design, in accordance with the requirements of CP102 (Code of Practice for the Protection of Buildings against Water from the Ground).

Old concrete floors

All laitance and surface contamination should be removed by mechanical means such as shot-blasting or diamond grinding to expose the coarse aggregate. After surface preparation, all loose debris and dirt should be removed by vacuum. Heavy oil or grease deposits should be removed either mechanically, or by steam cleaning, or by biological treatment, then by high pressure water blasting followed by the application of a penetrating primer. Where oil or grease contamination has been severe or of long duration, these methods may prove unsatisfactory and in these cases removal of the affected base is necessary. In existing buildings without a functioning damp-proof membrane, the application of a surface-applied membrane should be considered. Hydrostatic pressure may, under certain circumstances, cause adhesive failure between the flooring and the substrate. Where this is likely to occur, such as in areas where the ground water table is higher than the substrate, and where external tanking has not been applied, pressure relief must be provided, e.g. by direct drainage. A close visual examination should be made to verify cleanliness and soundness. Any weak or suspect areas should be repaired.

Priming

TechnoCoat® SF 500 is designed to be used without a primer. However, for highly porous substrates, TechnoSeal® EP Primer is recommended.

Mixing

The base and hardener components of TechnoCoat® SF 500 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.

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.

Products Included in this System

TechnoCoat® SF 500 Composite (incorporated into build up systems of 200-500 microns and above) For actual coverage rates, refer to the appropriate project specification. Detailed application instructions are available upon request.

Limitations

TechnoCoat® SF 500 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.

Sterling Technotrade 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.

TechnoCoat® SF 500 should not be applied when the ambient or substrate temperature is below 10°C or where ambient relative humidity exceeds 80%. At low application on temperatures (i.e. below 15°C) it is recommended to store the unmixed materials at warm conditions (i.e. around 25°C) 24 hours prior to the application.

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.

Standard Coating application

Use brush or lamb wool roller to apply the mixed TechnoCoat® SF 500 onto the prepared surfaces. A minimum film thickness of 200 microns must be applied per one coat of TechnoCoat® SF 500 at 0.3 kg/m² per coat. A second coat with a minimum film thickness of 200 microns should be applied at a right angle to the first coat. The second coat may be applied as soon as the first coat has initially dried. When TechnoSeal® EP-Primer is used at a rate of 5 m²/kg, it will give a dry film thickness between 150 - 175 microns with a clear yellow glossy finish.

Antislip Application

The base coat should be applied at a minimum film thickness of 250 microns and then fully blinded with the TechnoFix® SRA- Antislip Aggregate. Once the base coat has reached initial cure, all excess TechnoFix® SRA- Antislip Aggregate should be removed before a further application of TechnoCoat® SF 500 top coat. The top coat should be applied at a minimum film thickness of 400 - 750 microns depending on TechnoFix® SRA- Antislip Aggregate size used.

Chemical Resistance

TechnoCoat® SF 500 is resistant to a wide range of commonly used chemicals in the food, dairy and pharmaceutical industries, and engineering workshops. Good housekeeping practices should be employed. Please consult Sterling Technotrade technical representative for further advice. Some staining or discolouration may occur with some chemicals, depending on dwell time, temperature, type of chemical and degree of housekeeping employed. This does not necessarily affect the product service integrity or durability.

Typical Properties at 25°C

Type	Single Component	Substrate Temperature	+5 °C min. / +50 °C max.
Appearance	Clear and Pale yellow liquid	Odor	Odorless
Application	Brush/Roller, Conventional Spray & Airless Spray	Specific gravity	~1.15 ± 0.02 kg/litre.
Application	Brush/Roller, Conventional Spray & Airless Spray	Drying Time	4-6 hours depending on humidity and temperature.
Conformance	I.S. 9077-1979 (reaffirmed-1997) Appendix B, Clause 5.3.3 for application procedure.	Re-coating Time	18-20 hours

*All technical data stated herein is based on tests carried out under laboratory conditions.

Note: This coverage figure is theoretical - due to wastage factors, variety and nature of possible steel substrates, the practical coverage figures may be reduced.

Directions for use

Substrate Quality/Pre-Treatment

- Substrate should be free from oil, dirt and grease.
- For concrete remove cement skin, loose particles etc.
- Cavities, pin holes should be levelled. For heavily rusted surface, first clean mechanically by wire brushing, sand blasting etc. depending on the extent of corrosion.

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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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Application

- Apply TechnoCoat® RR100 by brush, cotton waste swab or spray on the effected metal surface.
- Leave it in contact with the surface till the reddish colour of the corroded surface has changed to nearest original black. Excess application may sometime give whitish black surface.
- After a minimum 24 hours remove the loose rust particles by brush.
- After the removal of loose rust any reddish rusted surface still left has to be re-treated with TechnoCoat® RR100.
- After the surface dries up totally (within 48 hours). Clean the surface with water jet and allow it to dry.

Health and Safety instructions

Some people are sensitive to resins so gloves and a barrier cream should be used when handling TechnoCoat® SF 500. 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.