

TechnoCoat[®] RR-100

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[®] RR100 removes rust and prevents further rusting of:

- New or old reinforcement steel in construction.
- Embedded steel in repairable structures various steel structures like tanks, water pipelines, effluent pipelines, trusses, purlins, rafters etc.
- Various steel structures like tanks, water pipelines, effluent pipelines, trusses, purlins, rafters and other structural members.
- Ball bearings, valves, tools etc. Ideal for protecting reinforcements with insufficient cover or in thin sections.

Features & Benefits:

- Removes rust Prevents further rusting by providing a passivating coat
- To be applied with brush, cotton waste swab or spray gun on the affected metal surface
- Easy to apply since it is in liquid form for repairable structures when applied with brush /spray gun can reach even the most difficult rusted areas with congested reinforcements.

Applications Instructions:

Substrate Preparation

All surfaces must be smooth, sound and free from debris, loose or flaking material and areas of standing water. Surfaces must be free from contamination such as oil, grease, dust, loose particles and organic growth. Concrete surfaces must be fully cured, laitence free and free from any traces of shuttering, release oils and curing compounds. All surfaces should then be grit blasted to remove all foreign matter and open up blow-holes, and provide a suitable key for **TechnoCoat[®] PU-TC**. All blow holes and imperfections should be filled with **TechnoSeal[®]EPA**, epoxy putty.

Mixing

Stir drums of individual components of **TechnoCoat[®] PU-TC** thoroughly to a homogenous and uniform mix a slow speed mixture (approx.400rpm) fitted with a suitable mixing paddle. Ensure that there is no entrapped air. Then mix the entire component A and component B, which are pre-weighed. After stirring, wait for the product to settle in order to let entrapped air escape.

Place the spiral blade at the bottom of the container before starting the mixer. This will help avoiding inducting air into the mass. Slowly move the stirrer head up to the surface while stirring. Do not remove the blade while still it is spinning. This procedure is continued for 5 minutes up and down to have a homogeneous mixing. Allow the combined mix to sit for an induction time of 20 minutes. Stir again gently with a hand stirrer to ensure uniformity before application.

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.

Curing

This coating will become tack free in approximately 2-4 hours and be fully cured in 5 days.

Packaging

TechnoCoat® RR100 is supplied in in 20 ltrs. HDPE containers. Packaging size may vary subject to local regulations and requirements.

Shelf Life & Storage

12 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.

Cleaning

Tools and equipments should be cleaned within the pot life of the grout with **TechnoFix® Eco Cleaner**. Cured material can only be removed mechanically.

Coverage

Depending on the extent of rusting and roughness of the surface, 1 L/kg **TechnoCoat® RR100** covers 7 to 8 m2 of plate like monolithic surface.

Limitations

During application direct contact of **TechnoCoat® RR100** with the skin should be avoided. Use gloves. Accidental spillage on the body must be washed immediately with plenty of water. If any doubts arise concerning temperature or application conditions, the **STIPL** technical representative shall be contacted.

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.

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® RR100**. 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.

*Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

Product only for professional use.

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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