



Data Sheet and Application Guide

Product Description

Thortex Corro-Tech GP has been specifically developed as an anti corrosive coating for steel structures that cannot be abrasive blast cleaned.

Product Features

- Combines good application characteristics with excellent corrosion protection.
- Designed for application by brush, roller or spray.
- Suitable for use on mechanically prepared steelwork or high pressure water cleaned steel, can also be used on abrasive blasted steel.
- Can be applied over existing coatings.
- Can be used as a two coat primer/finish system or overcoated with a variety of top coats.

General Application Steps

1. Remove oil, grease and loosely adhering deposits and all visible water.
2. Appropriately prepare the surface.
3. Apply Thortex Corro-Tech GP coating at the specified thickness
4. Allow to cure.
5. Visually inspect the coating for defects.
6. Repair all defects.

Surface Preparation

Surfaces should be clean and free from oils, grease, rust, milscale, loosely adhering coatings and visible moisture.

Surfaces should be prepared by mechanical wire brushing, grinding or high pressure water jetting (typically 5000 psi) to achieve SSPCSP2/SP3 ISO 8501-4 St 2-St 3 taking particular care when cleaning badly pitted surfaces.

Previously coated surfaces should be abraded using 180 grade emery paper. Any loosely adherent coating must be removed and surrounding areas feather edged.

Where blast cleaning is possible surfaces should be prepared to NACE No 3/SSPC-SP6, ISO 8501-1 grade Sa2 or equivalent.

All oil and grease must be removed by the use of solvents or approved degreasers prior to carrying out surface preparation.

Product Mixing

The product is a two component material comprising a Base component and an Activator component which must be mixed together prior to use. Both components should be thoroughly stirred to incorporate any slight separation prior to mixing. While continually stirring the Base, the Activator component should be slowly added with mixing continuing until completely homogeneous. The mixed material must be used within 1 ½ hours at 68°F. This time will be reduced at higher temperatures and extended at lower temperatures.

Application Procedures

Application should not be carried out at temperatures below 45°F, nor when humidity exceeds 90% or when surface to be coated is less than 3°F above the dew point.

Thortex Corro-Tech GP can be applied by brush, roller or spray. When application is carried out by brush, two coats may be required to achieve the correct film build.

When airless spray application is used, a tip size of 15-18 thou is recommended with a tip pressure of approximately 2500 psi.

Only sufficient material should be mixed that can be applied within the usable life of the product.

Clean all equipment immediately after use with solvent-based cleaners.

Properties

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Property	Value
Color	Aluminum
Ratio	1:1 By volume
Drying & Cure times at 20°C (68°F)	
Useable Life	1 1/2 hours
Touch Dry	6 hours
Hard Dry	24 hours
Minimum Overcoating	16 hours
Maximum Overcoating	72 hours -with itself 24 hours -with 2 pack PU finishes
Full Cure	7 days
Volume Solids	90%
Specific Gravity	1.34
V.O.C	83 gm/ltr-estimated
Film Thickness	140 microns wet, 125 microns dry
Theoretical Coverage Rate	7 sq meters per liter at 125 microns dift.
Note: The actual thickness to be applied should be agreed between the specifier and the manufacturer dependant on operational performance criteria and may be higher or lower than the quoted typical value. Detailed system recommendations are available on request.	
Performance Data	
Abrasion Resistance	70mgm weight loss per 1000 cycles -1 kg load CS17 Wheel (ASTM D4060)
Dry Heat Resistance	100°C (ASTM 02485)
Direct Pull Adhesion	6.2Mpa (900 psi) on abrasive blasted steel (ASTM D4541)
Salt Fog Resistance	5000 hours exposure (ASTM 8117)
Humidity Resistance	5000 hours exposure (BS3900 -F2)
Impact Resistance	2.6 Joules (ASTM G14)
Scratch Resistance	2.5kg (5.5lbs) load
Tensile Shear Adhesion	17.25 Mpa (2500 psi) (ASTM D1002)

Packaging and Storage

Supplied in 5 liter units.

Use within 2 years of date of manufacture. Store in original sealed containers at temperatures between 40°F and 90°F.

Handling and Safety Precautions

Read all Health Hazard, Precautionary and First Aid, Material Safety Data Sheet, and/or product label prior to handling or use.

Ordering Information/Customer Service

For ordering technical or product information, or a copy of the Material Safety Data Sheet, please contact us:

Phone: 610-831-0222

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