

Solvented two component high temperature lining

Product Description

Corroline EP HT50 is designed for use as a protective coating for steel tanks and pipework containing hot water and hot aqueous solutions. It is particularly suitable for use in desalination plants.

Corroline EP HT50 has excellent corrosion protection and chemical resistance, which can easily be applied by conventional airless spray pump, brush or roller. Over large surface areas we highly recommend the use of an airless spray pump. The cured coating is able to withstand continuous immersion at temperatures up to 120°C and is an ideal coating for long term protection of condensate return tanks and hot water tanks.

Product Features

- Excellent adhesion to blast cleaned steel
- Withstands hydrostatic testing
- Withstands general pigging operation
- Unaffected by aqueous solutions up to 120°C
- Ease of application

Surface Preparation

General

Correct surface preparation is essential for the success of any protective coating system. All surfaces should be clean, dry and free from contamination. The substrate surface should be fully inspected and assessed after surface preparation has been completed before proceeding with the application of Corroline EP HT50.

Steel Substrate

All steel surfaces to be coated should be abrasive blasted using a suitable blast medium to produce a minimum cleanliness of Swedish Standard SA 2.5 or equivalent and a minimum 35 - 40 microns angular profile. Remove all residual blast debris and inspect the surface. Profile checks should be taken and recorded. Once blast cleaned, the surface must be degreased and cleaned using Corroclean and all prepared surfaces must be coated before rusting or oxidation occur.

Mixing

Corroline EP HT50 is a two component system supplied as a base and activator.

For brush or roller application stir the content of the base component and while continuing stirring, gradually add the total contents of the activator and continue agitating until a homogenous mix is obtained.

Once mixed, the usable life of the product is 6 hours at 20°C. This time will increase at lower temperature and decrease at higher temperatures.

Where small volume mixes are required, the mixing ratio is 4 parts base to 1 part activator by volume.

For spray application (see below) a suitable in-line static mixer should be used.

Application

Precautions

- Do not apply when relative humidity exceeds 90%, when the surface to be coated is less than 3°C above the dew point or when the ambient or substrate temperature is less than 7°C. For best results, especially when applying material by hand, the ambient or substrate temperature should be at least 10°C.
- To ensure coating integrity and minimum thickness, use a short bristled brush to stripe coat all welds, around bolt holes, edges and other sharp protrusions. Allow to cure until touch dry prior to carrying out the overall application of Corroline EP HT50 and do not exceed the maximum over-coating time of 24 hours.

Application Method

Corroline EP HT50 is best applied by an airless spray pump with a minimum 30:1 pump ratio. Typical tip sizes of between 13-15 thou should be employed with a minimum tip pressure of 2,000 PSI to give effective atomization. Depending on prevailing conditions Corroline EP HT50 may require thinning for spray application. Where thinning is required no more than 10% of Corrotech thinners should be added by volume.

Brush or roller: a good quality brush or foam roller should be used when applying Corroline EP HT50 by hand. Corroline EP HT50 should be applied to give an uniform even coating thickness and wet film thickness checks made as above.

Overcoating Window

Corroline EP HT50 is normally applied as a 3 to 4 coat system. The thickness of each coat should be 50-75 microns giving a total dry film thickness of 200-250 microns. Overcoating can be done after minimum 16 hours and no longer than 7 days after the initial application. Where this maximum over-coating time is exceeded the material should be allowed to fully harden before being lightly sweep blasted to remove the surface layer prior to over-coating.

Curing Times	20°C
Touch Dry	4 hrs
Hard Dry	16 hrs
Full Cure	7 days
Overcoating	min 16 hours / max 7 days

Warranty

Corrotech Construction Chemicals guarantees this product will meet the performance claim stated herein when material is stored and used as instructed. Corrotech Construction Chemicals further guarantees that all its products are carefully manufactured to ensure the highest quality possible and tested strictly in accordance with universally recognized standards (ASTM, ANSI, BS, DIN, etc). Since Corrotech Construction Chemicals has no control over the use of the products described herein, no warranty for the application can be given.

Inspection

Corroline EP HT50 can be inspected for pinholes and holidays using a high voltage spark tester. Before testing, the coating should be washed down with clean water to remove any contamination on the surface and allowed to dry. Typical voltage for testing should be 1.5kV but please refer to the equipment manufacturer's recommendations as voltages may vary with equipment type.

Technical Support

Corrotech Construction Chemicals offer complete technical support and assistance from discussing application requirements to training approved local contractors. For further information please contact a Corroline representative or your nearest dealer.

Health & Safety

Please refer to the product material safety data sheet for detailed information on handling, storage, shipping and disposal.

Packaging and Storage

Supplied in either 5 & 20 litre packs. Bulk packaging available.

Shelf life is 2 years providing it is stored between 5°C and 35°C in original sealed containers.

Technical Information

Test	Results
Colour	red oxide and grey
Mix ratio	4:1 base component to activator by volume
Working life	6 hrs @ 20°C
Total solids content	50%
VOC	593 g / litre
Film thickness	wft 100 - 150 microns dft 50 - 75 microns
Specific gravity	1.40
Theoretical coverage rate	6.67 m ² / litre @ 75 microns dft
Temperature resistance	suitable up to 150°C dry service; 120°C aqueous immersion

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This technical data sheet is given in good faith and does not guarantee the application work. All Corrotech technical data sheets & method statements are updated on a regular basis and can be subject to change without notice. It is the users responsibility to obtain the latest version of the information required.

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