

Two component epoxy aviation fuel coating

Product Description

Corroline EPA1 is a two component modified epoxy that has been specifically designed as an internal lining for pipelines and equipment subject to contact with aviation fuel and other refined products.

Corroline EPA1 is easily applied as either a one or two coat system and offers excellent corrosion protection and mitigate contamination of the fuel by particulate matter that can cling to the pipeline wall. The cured coating is able to withstand general pigging operations for periodic cleaning and inspection.

Product Features

- Resistant to aviation fuel
- Prevents particulate build up
- Excellent corrosion resistance
- Thin film coating easily applied
- Withstands general pigging operation
- Suitable for pipelines and storage tanks
- Resistant to all aviation fuels

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 EPA1.

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 mean profile 45-65 microns. 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 EPA1 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 8 hours. 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 in less than 3°C above the dew point or when the ambient or substrate temperature is less than 5°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 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 EPA1 and do not exceed the maximum over-coating time of 7 days.

Application Method

Corroline EPA1 is recommended to be applied by an airless spray pump with a minimum 45:1 ratio. tip sizes of between 19-27 thou should be employed with a tip pressure of 2,500 psi (minimum). Depending on prevailing conditions Corroline EPA1 may require thinning for spray application. Where thinning is required no more than 3% of Corrotech thinners should be added by volume.

For smaller areas and details, good quality brushes and foam rollers should be used. Corroline EPA1 should be applied to give a uniform even coating thickness and wet film thickness checks made as above.

All equipment can be cleaned immediately after use with Corroclean.

Overcoating Window

Where it is necessary to apply more than one coat of Corroline EPA1, this can be done as soon as the material is touch dry 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	2 hrs
Hard Dry	16 hrs
Full Cure	7 days

Cure time can vary with temperature and prevailing conditions.

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 EPA1 can be inspected for pinholes and holidays using a low voltage tester. Before testing, the coating should be washed down with clean water to remove any contamination on the surface and allowed to dry. 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 5 & 20 litre packs. Bulk packaging available.

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

Technical Data

Colour	red oxide and grey
Mix ratio	4:1 by volume
Working life	8 hrs @ 20°C
Total solids content	55%
VOC	426 gms / litre
Film thickness	110 - 150 microns dft (min 100 - max 200) either applied as single or two coats system
Specific gravity	1.40
Theoretical coverage rate	5 m ² / litre @110 microns DFT
Temperature resistance	suitable up to 100°C dry service
Aviation fuel test criteria	AFQRJOS meets DEF STAN 91-91/Issue 7 Amendment 1 and D1655-11b for Jet A1

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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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