

Solvented two component gas flow pipe lining

Product Description

Corroline EP MS50 has been specifically designed and developed as an internal lining for gas pipelines that has proven to reduce black powder build up and improve flow efficiency.

Corroline EP MS50 offers excellent corrosion protection and chemical resistance, and 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 is highly recommended. The cured coating is able to withstand hydrostatic testing and normal pigging operations in service and can significantly contribute to increased gas flow.

Product Features

- Increases gas flow rates
- Reduces black powder build up
- Excellent adhesion to steel
- Withstands hydrostatic testing
- Withstands general pigging operation
- Excellent resistance to a wide range of hydrocarbons
- 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 MS50.

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 35-65 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 EP MS50 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 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 1 parts base to 1 part activator by volume.

For spray application (see below) a suitable in-line static mixer can be used if spraying is through plural pump.

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 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 and minimum thickness, use a short bristled brush to stripe coat all welds, around bolt holes, edges and other sharp protrusions. Allow to cure for at least four hours prior to carrying out the overall application of Corroline EP MS50 and do not exceed the maximum over-coating time of 7 days.

Application Method

Corroline EP MS50 is best applied by an airless spray pump with a minimum 45:1 pump ratio. Typical tip sizes of between 15-21 thou should be employed with a minimum tip pressure of 2,500 PSI to give effective atomization. Depending on prevailing conditions Corroline EP MS50 may require thinning for spray application. Where thinning is required no more than 2.5% 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 MS50 by hand. Corroline EP MS50 should be applied to give a uniform even coating thickness and wet film thickness checks made as above.

Cure Times

Where it is necessary to apply more than one coat of Corroline EP MS50, 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 |

Inspection

Corroline EP MS50 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 4 & 16 litre packs. Bulk packaging available on request.

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

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.

Technical Data

| | |
|------------------------------------|---|
| Colour | red oxide |
| Mix ratio | 1:1 by volume |
| Working life | 8 hrs @ 20°C |
| Total solids content | 50% |
| VOC | 469 g / litre |
| Film thickness | wft 150 - 200 microns dft 75 - 100 microns |
| Specific gravity | 1.10 |
| Theoretical coverage rate | 6.66 m ² / litre @75 microns dft |
| Temperature resistance | suitable up to 100°C dry service |
| International test standard | ISO 15741 |

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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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