

Product reference: 3/62

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Product title: Flarestack Nanopaint

Valid from: 10th November 2009

Last reviewed: May 2019

Type

A single pack, aluminium flake-filled silicon coating for high temperature substrates in non-immersed service.

Suggested use

Flarestack Nanopaint provides good corrosion protection to non-immersed metal surfaces from ambient temperature up to 600°C and in thermal cycling conditions. Suggested use primarily as a corrosion protection for Flare Stacks and other high temperature atmospheric service applications. It is also used as an under-insulation corrosion barrier to prevent problems associated with CUI.

Limitations

Flarestack Nanopaint should be applied at substrate temperatures below 50°C and temperatures above 8°C. Flarestack Nanopaint must not be applied to surfaces at elevated temperatures. Do not apply to damp or wet surfaces.

Health & safety

When using this product, safety precautions should be observed. Avoid contact with the eyes and skin. Suitable protective clothing should be worn. Ensure good ventilation and wear a vapour mask recommended for hydrocarbon solvent vapours. **Read the Health and Safety Sheets before using the product.**

Surface preparation

Wherever possible abrasive grit blast cleaning to ISO Standard 8501-1 Sa 2½ or equivalent should be used (for full details, refer to Corrocoat data sheet SP1). UHP water blasting may be used to NACE No 5 / SSPC - SP12 WJ-2/L standard, the substrate must be dry before application of the material. Flarestack Nanopaint can be

applied over a mechanically prepared substrate but this will lead to a deterioration in performance. Remove any surface grease, oil or other contamination using a suitable solvent or degreasing agent. Remove any loose material from the surface by mechanical means and complete using suitable equipment to a standard not lower than ST2.

Application

Brush or roller application, or by airless spray apparatus using a 45:1 pump ratio and a gun fitted with a 13 thou reversible spray tip. Wet film applications of over 120 microns are to be avoided.

Thinners

Not normally required. If required, only Xylene should be added, up to a maximum of 5% by volume.

Storage

Up to 12 months minimum in original unopened tins.

Colour

Metallic Aluminium finish.

Recommended DFT

Generally 2 or 3 coats of approximately 30-50 microns DFT per coat are required. Edges and other corrosion-susceptible areas may benefit from a stripe coat before or in between main coats. WFT's of more than 120 microns must not be applied, as excessive WFT's will affect the cure of the product.

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Volume solids

Approximately 43.6%

Practical spreading rate

10-12 square metres per litre
(theoretical coverage rate: 13 square metres per litre).

Density

1.03 g/cm³

Flash point

27°C (Closed Cup method).

Temperature resistance

Up to 600°C in service.

Touch dry time

Variable, approximately 30 minutes from application at 20°C.

Overcoat time

As soon as the first coat is dry, after approximately 30 minutes at 20°C.

Cleaning solvent

Xylene.

Revised 10/2010
Reviewed 02/2014 (No changes)
Reviewed 10/2017 (No changes)
Reviewed 05/2019

All values are approximate. Physical data is based on the product being in good condition before polymerisation, correctly catalysed and full cure being attained. Unless otherwise stated, physical data is based on a test temperature of 20°C, test results may vary with temperature. Information regarding application of the product is available in the Corrocoat manual. Should further information be required, please consult Corrocoat Technical Services.