

Product Data

Composition

Bituminous vehicle containing amorphous carbon pigment.

Volume Solids (ISO 3233)

54% ± 2%

Covering Capacity

Theoretical: 13.5 m²/litre at 40 microns dry film thickness.

Recommended Film Thickness

40 microns dry: 74 microns wet (per coat)

Mixing Ratio

Not applicable - single pack.

Pot Life

Not applicable.

Shelf Life

24 months, stored under cool, dry conditions in original, unopened packs

Drying Time

Drying time will depend on temperature and ventilation conditions. The following are given as a guide at 15°C. They may be doubled at 7°C.

Touch dry: 6-8 hours.

Hard dry: Only achieved after maintaining water/steam temperature above 100°C for 5 hours.

Overcoating Interval

Minimum: 8 hours.

Maximum: Indefinite.

Application

Brush.

Heat Resistance

Withstands continuous contact with water or steam between 93°C and 540°C

Flash Point

40°C

Colour

Black.

Packages

5 litre.

Weight per Litre

1.1 kg.

Solvent/Cleaner

Clean equipment thoroughly immediately after use with Thinner 10504.

Finish

Matt.

VOC (ISO 11890-1)

357 g/litre.

Apexior No.1

A unique, specially formulated composition designed as an anti-corrosive coating for metal surfaces in continuous contact with hot water and steam above 93°C (200°F). It is particularly suited for the internal lining of steel boilers, steam pipes and hot well tanks. A regular maintenance schedule during shut down periods is necessary to ensure the long term performance of the coating.

The product has been demonstrated to improve the heat transmission efficiency of coated surfaces, with real energy saving benefits.

Reference no.:

Apexior No.1

177.2507

Surface Preparation

Remove grease, oil and other contaminants. Special care must be taken on weld areas to remove flux and spatter. Welds and joints should be prepared by grinding in accordance with EN 15879-1. Blast clean to a minimum standard of cleanliness Sa 2½ BS 7079: 1989 (ISO 8501-1: 1988). Surface profile Rz should not exceed 100 microns (0.004 in.).

If blasting is not practical, make full use of mechanical tools, manual chipping and wire brushing to remove rust and scale to achieve preparation standard St 2 BS 7079: 1989 (ISO 8501-1: 1988). Excessive burnishing of the steel should be avoided. Remove all dust and debris from the surface, which should be coated before contamination can occur.

Existing Apexior No.1 coated surfaces should be clean, dry and free from dirt, oil, grease, scale or other contamination.

Application Method

Apexior No.1 should only be applied to clean metal or sound previous coats of itself. Three or more coats are required for full protection of steel, and at least two coats for the maintenance painting of surfaces previously coated with the product. Stir thoroughly before use, addition of thinner is not normally necessary.

Brush

This product is intended for brush application only, a minimum of two coats should be applied. Work the first coat well into the seams, bolts, etc. Since drying primarily occurs by solvent evaporation, good ventilation must be provided.

Surfaces coated with Apexior No.1 should not be exposed to weathering.

Do not apply when relative humidity exceeds 90% and condensation is likely. Drying will be retarded below 4°C and painting should be stopped until temperature rises. Only apply coating when metal temperature is 3°C or more above dew point. When conditions approach these critical limits the use of heating and dehumidification equipment is essential if application is to continue. Loss factors based on the nature of the surface and the chosen application method should be applied to obtain a practical covering capacity.

Do not vary recommended dry film thickness without written confirmation.

The product is intended for industrial use only. Improper work practices or negligent product handling may be dangerous to health and create risk of fire or explosion. Appropriate safety regulations, as well as the MSDS and hazard warning labels must be fully observed.

Data Sheet G03d