



OXYCOATS – HEAVY DUTY SPECIFICATIONS

ODU UNITS –

All copper components inside the condenser unit shall be coated with a polysiloxane-based protective coating system. A primer layer consisting of two coats of polysiloxane coating shall be applied, with each coat having a dry film thickness of 15–20 microns. After the base coats become touch dry (approximately 40–60 minutes), an epoxy hybrid top coat shall be applied on all U-bends and joints with a dry film thickness of 50–60 microns to provide additional protection in high-sulphur environments. All aluminum fins shall be coated with a polysiloxane-based coating with a dry film thickness of 30–40 microns for installations in coastal areas or locations with high salinity and humidity. These coatings shall provide both inhibitive and sacrificial protection against corrosion caused by sulphur, moisture, salt-laden air, and other chemical contaminants. The polysiloxane based coating must be third-party certified by a NABL-accredited laboratory and shall demonstrate a minimum of 10,000 hours salt spray resistance as per ASTM B117 and 4,000 hours as per ASTM G85 Annexure 1. It shall also have a temperature resistance range from -25°C to $+450^{\circ}\text{C}$. The epoxy hybrid top coat used on U-bends and joints must also be third-party certified by a NABL-accredited laboratory for a minimum of 10,000 hours salt spray resistance as per ASTM B117. All coating applications shall be carried out in the presence of the OEM representative and in accordance with the coating manufacturer's approved procedures.

IDU UNITS –

All copper components inside the evaporator unit shall be coated with a polysiloxane-based protective coating system. A primer layer consisting of two coats of polysiloxane coating shall be applied, with each coat having a dry film thickness of 15–20 microns. After the base coats become touch dry (approximately 40–60 minutes), an epoxy hybrid top coat shall be applied on all copper with a dry film thickness of 50–60 microns to provide additional protection in high-sulphur environments. All aluminum fins shall be coated with a polysiloxane-based coating with a dry film thickness of 30–40 microns for installations in coastal areas or locations with high salinity and humidity. These coatings shall provide both inhibitive and sacrificial protection against corrosion caused by sulphur, moisture, salt-laden air, and other chemical contaminants. The polysiloxane based coating must be third-party certified by a NABL-accredited laboratory and shall demonstrate a minimum of 10,000 hours salt spray resistance as per ASTM B117 and 4,000 hours as per ASTM G85 Annexure 1. It shall also have a temperature resistance range from -25°C to $+450^{\circ}\text{C}$. The epoxy hybrid top coat used on copper tubes must also be third-party certified by a NABL-accredited laboratory for a minimum of 10,000 hours salt spray resistance as per ASTM B117. All coating applications shall be carried out in the presence of the OEM representative and in accordance with the coating manufacturer's approved procedures.

MAKE- OXYCOATS DUAL BARRIER – BASE COAT (2 coats)

MAKE – OXYCOATS ANTIRUST – TOP COAT (1 coat)

Thanking you,



For Oxycoats
Prop.

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