



ENVIROPEEL MATERIAL TECHNICAL DATA SHEET

MATERIAL TYPE:

Corrosion-Inhibiting Sprayable Thermoplastic (CIST)

DESCRIPTION:

High-build, solvent-free, strippable, recyclable and re-usable thermoplastic polymer barrier coating.

RECOMMENDED USES:

1: For the long-term prevention of bearing wear and contamination ingress on rotating equipment and sealed connections.

2: For the anti-corrosion protection of steel and other metals, especially flanges, pipework etc, transit protection of machinery and components, long and short-term protection of stored machinery and components.

MATERIAL CHARACTERISTICS:

Flexible encapsulating polymeric coating, easy to strip and repair for on-site inspection and maintenance.

Can be applied to pre-existing corrosion.

APPLICATION TYPE:

Solid material chips heated in proprietary application units (MA units) for spray application to target substrate

AVAILABLE COLORS:

Blue or Gray as standard - any color on request.

FLASH POINT:

Greater than 200°C/392°F.

VOLUME SOLIDS:

100%

VOC:

No volatile organic compounds or harmful by-products.

TOXICITY:

Non Toxic & Non Hazardous.

RECOMMENDED THICKNESS:

Minimum average DFT 4mm/160 mil (two coats).

APPLICATION RATE:

Continuous application at DFT of minimum 4000 microns/160 mil per coat.

DRYING TIME:

Touch dry: 1-2 minutes Handling time: 15 minutes.

SPECIALIZED APPLICATION CONDITIONS:

Substrate temp down to -15°C/5°F do not apply over ice/frost/moisture. Apply in a continuous operation to limit cooling of material.

Humidity is not a factor as long as substrate remains dry.

Low air temperatures and wind chill may require additional measures.

Max substrate temp 80°C/176°F.

RESISTANT TO:

UV and a wide range of aqueous solutions including sea water as well as some chemical solutions.

PACKING:

10 Kg/22lbs plastic containers (re-usable).

SHELF LIFE:

Min 36 months in original container stored at 20°C/68°F.

MATERIAL MELTING TEMPERATURE:

120°C/248°F.

MATERIAL APPLICATION TEMPERATURE:

160-175°C/320-347°F.

Note: Oil separation may occur during heating - avoid by mixing regularly. Tank should be topped up during use to maintain material quality.

MATERIAL MAXIMUM TEMPERATURE:

180°C/356°F.

SURFACE PREPARATION:

Minimum surface preparation required - use wire brush to remove loose flaking paint and rust particles.

Can be applied to existing rust. For substrates with heavy rust, Enviropeel Pre-treatment Oil should be used to prevent undue absorption of inhibitor from E170.

EQUIPMENT CLEANING:

Although there is no need to remove or clean out equipment after use, periodic cleaning to prevent build-up of residual solids is recommended.

TESTING/ENDORSEMENTS:

Shell for maintenance coating on rusting flanges; Major mining companies for ingress protection on bearings; ASTM B117 10,000 hr - hot salt fog compliant; 9000 HR Cyclic UV resistant.

