

RUSTFree™

COATING

PRODUCT DESCRIPTION

Advance Technology's RUSTFree™ Liquid Coating is a two component peelable magical material applied in a fluid state. It provides outstanding dust, water and corrosion resistance and can be easily removed when required. RUSTFree™ was developed to combat the worldwide corrosion issues that are faced by all industries and infrastructures. RUSTFree™ protects complex metallic structures for short or extended periods of time. The liquid coating adheres quickly to most surfaces yet can be removed easily leaving no traceable residue. This allows for easy surface preparation prior to welding of the pipe joints and also for application of the field joint coating.

PRODUCT FEATURES

Excellent Moisture Barrier

- Minimizes end disbondment from corrosion undercutting and rust formation on cutback areas during storage.
- Minimizes moisture absorption on polyurethane foam of insulated pipes during storage.

Easy Application

- 100% solids; easy to achieve a high-build coating thickness.
- Can be brush applied or spray applied.
- Easy to install, low cost, effective and removable without residue after extended outdoor storage at high temperature or humidity.

Excellent Mechanical Protection

- Provides resistance to welding splashes, abrasion and flame.

Environmentally Friendly

- Stable molecular structure under 300°C.
- No hazardous contents.



Advance Technology RUSTFree™ Liquid Coating



RECOMMENDED APPLICATIONS

- Metal surfaces including bolted flanges, valves, bearing housings, critical pipeline connections, stored machine parts and irregular metal components.
- Isolation from salt fog, oxidation, water and chloride-rich corrosion environments.
- Exposed foam areas of pre-insulated pipes requiring protection against moisture ingress.
- Vehicle chassis requiring protection from de-icing salts.

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Peelable Liquid Coating for Temporary Corrosion Protection

Properties

Properties	Test Method	Typical Values
Density	ISO 2811-1	1.36 g/cm ³
Non-volatile Matter Content	ISO 3251	≥ 98%
Sea Water Immersion @ 4200 hrs	ISO 2812-2	No water under film
Bend @ 23°C	ASTM D522	No cracking
Cryogenic Bend Flexibility	ASTM D790	-50°C, Pass
Dielectric Strength	ASTM D149-09	25 kV/mm
Volumetric Resistivity	ASTM D257	> 1.0 × 10 ¹⁶ Ω·cm
Elongation	ISO 37	250%
Tensile Strength	ISO 37	2 MPa
Impact	ISO 21809-3	≥ 1 J/mm
Water Absorption @ 23°C, 24h	ASTM D570	0.7%
Peel Strength @ 100 mm/min	ISO 8510-2	0.02 N/mm
Tear Strength	ISO 34-1	4.5 N/mm
UV Weathering Test	ASTM G155	Passed after 3,000 hrs.
Drip Resistance	ISO 21809-3	No dripping @ 200°C



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