

POLITHERM 86 WFS R MT BLACK SBL 70456 MA

Code: 19731341

PRODUCT DESCRIPTION

Superdurable polyester powder coating with good chemical resistance and excellent adhesion, flexibility and yellowing resistance. It has excellent weathering resistance with greater gloss and color retention than other polyester-based coatings.

RECOMMENDED USE

Coating of metal surfaces for use outdoors where extra durability against the weather effects is required.

PROPERTIES

Due to the technical characteristics of this product, properties such as gloss, roughness and texture may vary depending on the applied film thickness and application conditions, such as voltage, flow rate, spray gun distance and grounding.

This coating, when properly applied and cured is suitable for the use of adhesives and sealants. However, because of the different products on the market, it requires prior testing by the user in order to select the adhesive and / or sealant appropriate.

Superdurable polyester powder coating developed for application in lines with subsequent sublimation process.

CERTIFICATIONS AND APPROVALS

Free from heavy metals and other substances provided for in RoHs Directive 2015/863 EU of 31/03/2015.

PACKAGING

Cardboard box with 33 lb (15,000 kg) in high-density polyethylene bag.

CHARACTERISTICS OF MANUFACTURED PRODUCT

Resin	Polyester
Gloss	Matte
Finish	Microtexture
Specific gravity ($\pm 0,10$)	1,35 g/cm ³
Theoretical Coverage	40.2 ft ² /lb (8,23 m ² /kg) in medium thickness 3.5 mils (90 μ m)
Mass loss during cure	Maximum 2%
Moisture content	Maximum 0,6%
Shelf life	12 months
Storage condition	It must be stored in closed containers, in cool, dry and covered places, at an ambient temperature not exceeding 86°F (30°C).

APPLICATION CHARACTERISTICS

Substrate	Ferrous metals Non-ferrous metals
Surface preparation	Ferrous : Phosphatization or nanoceramic Non-ferrous: Chromatization or nanoceramic
Surface cleaning	The performance of this product is related to the degree of surface preparation. The surface must be clean, dry and free of any contaminants. Completely remove oils, grease and fats.
Thickness	3.1 mils (80 μ m) - 3.9 mils (100 μ m)
Cure conditions	10 min à 392 °F (200 °C) (metal temperature).



Cure windows

15 min - 25 min at 356 °F (180 °C)
 12 min - 20 min at 374 °F (190 °C)
 10 min - 18 min at 392 °F (200 °C)
 8 min - 15 min at 410 °F (210 °C)

Application system Electrostatic spray gun corona

NOTE:

For non-ferrous metals phosphatizing, please contact our technical service.

CHARACTERISTICS OF APPLIED PRODUCT

Test	Specification/Standard
Adhesion	Maximum GR0 (ASTM D3359)
Gloss 60°	8 - 12 (ASTM D523)
Impact	Minimum 35 lb.in (40 kg.cm) (ASTM D2794)
Flexibility (conic mandrel)	Maximum 1/5 in (5,00 mm) (ASTM D790)

NOTE:

Due to the characteristic of this line, the paint may present a color difference with the variation of the layer, substrate and pretreatment. For greater homogeneity of the sublimed effect consistency must be maintained in the application layer.

CHEMICAL RESISTANCE CHARACTERISTICS

Test	Specification/Standard
Humidity	Minimum 1500h (ASTM D2247)
Salt spray	Minimum 700h (ASTM B117)

NOTE:

In the chemical resistance tests, the substrate used was cold-rolled steel sheet with tricationic phosphate. The mechanical resistance tests were performed on degreased common steel sheet under specific curing and coating conditions for the product. The values may vary depending on the substrate used.

SAFETY PRECAUTIONS

Guidance is available in the product's Safety Data Sheet (SDS).

NOTE

The information provided herein is based on our testing and experience and is intended to inform you about the product and its possible applications. The information provided in this bulletin is not intended to be complete, and the user assumes the risk of using the product for a purpose other than the specifications recommended in this bulletin without first obtaining our written confirmation of its suitability for the intended purpose. While we strive to ensure the accuracy of the information provided herein, we cannot control the quality or condition of the substrate, nor any other factors that affect the use and application of this paint. Therefore, unless we agree in writing to any condition that deviates from our recommendations, we accept no liability that may arise regarding the performance of this product. The information contained in this bulletin is subject to change without notice, based on our experience and policy of continuous development.