



# POLITHERM 86 WFS R SM BLACK MG CATERPILLAR 70245 SM

**PRODUCT:** 17541832

**DESCRIPTION / USES:** Powder coating for metallic parts intended to outdoor use. Superdurable polyester coating with excellent adhesion, flexibility and resistance to yellowing. Presents excellent exterior durability with colour and gloss retention greater than conventional polyester.

## CHARACTERISTICS:

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Resin:</b>            | Poliéster                                                                                             |
| <b>Specific gravity:</b> | 1,3 ± 0,10 g/cm <sup>3</sup>                                                                          |
| <b>Stability:</b>        | 12 month (max. 30°C)                                                                                  |
| <b>Observations:</b>     | Free of heavy metals and other substances provided for in Directive 2015/863 EU of 03/31/2015 (RoHS). |

## APPLICATION CHARACTERISTICS:

|                             |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| <b>Surface:</b>             | Ferrous and non-ferrous                                                      |
| <b>Surface preparation:</b> | Ferrous : Phosphatization<br>Non-ferrous: Chromatization or phosphatization* |
| <b>Cure conditions:</b>     | 10 minutes at 200°C                                                          |
| <b>Thickness:</b>           | 38 - 45 µm                                                                   |
| <b>Application system:</b>  | Electrostatic gun                                                            |

## AFTER CURE CHARACTERISTICS:\*\*\*

| TEST                        | METHOD               | SPECIFICATION    |
|-----------------------------|----------------------|------------------|
| ADHESION                    | ASTM D 3359          | Maximum GR0      |
| GLOSS @ 60°                 | ASTM D 523           | 60 ± 5 UB        |
| IMPACT (REVERSE)            | ASTM 2794            | Minimum 50 kg.cm |
| FLEXIBILITY (CONIC MANDREL) | ASTM D 790 / ISO 178 | Minimum 3 mm     |

## CHEMICAL RESISTANCE \*\*\*

|                    |                                 |
|--------------------|---------------------------------|
| <b>Salt spray:</b> | Minimum 1000 h (ASTM B117 – 03) |
| <b>Humidity:</b>   | Minimum 1000 h (35°C)           |

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

\*\* After stabilization on correct temperature (metal temperature).

\*\*\* The tests were conducted on degreased steel panels in accordance with the cure and thickness specifications. The results may vary, depending on the surface characteristics. For chemical resistance testing, panels were degreased and treated with tricationic phosphat.

**IMPORTANT:** 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.

If is not possible the use of the product according to the directions given above we ask you to contact our technical service.

**STORAGE:** Fresh, dry and covered place.

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Review: 01

Date: 8/13/25