

## POLITHERM 20 R PE- BROWN COPPER 77182 UM

**PRODUCT:** 14979093

**DESCRIPTION / USES:** Hybrid powder coating.  
Surfaces exposed to indoor environment.

**ATTENTION:**

**Resistance:** Metallic coatings are sensible to scratches and can present decreased effect when in contact with humidity and regular cleaning products. The metallic effect undergoes major changes in case of intense handling, contact with chemicals (including some more aggressive cleaning products) and friction between parts or abrasive objects.

**Protection:** It's recommended applying a uniform layer of clear coat to protect this film against wear. It should be noted that this procedure reduces the metallic effect and this reduction is variable depending on the original level of metallic effect. It is recommended pre-testing the use of the clear and this clear must be applied after a partial cure of the metallic coating.

**Application:** Metallic powder coatings should follow strict controls in the application process in order to reduce tonal variations. This occurs when there is variation in any one of the following: gun voltage, thickness, airflow, and way of application, substrate and sharp of the part. One should also avoid the following: recoating, re-use of recovered coating, presence of different mass parts in the same curing batch. The curing conditions (temperature/time/parts distribution) may also cause differences in metallic effect.

The gloss and the color of this coating are also sensitive to curing conditions. Changes from standard can be avoided by running the correct cure cycle (temperature, time and parts distribution). In short, each applicator should find the best parameters for a more homogeneous result.

### CHARACTERISTICS:

<b>Resin:</b>	Epoxy/polyester
<b>Specific gravity:</b>	1,51 ± 0,10 g/cm <sup>3</sup>
<b>Stability:</b>	12 months (máx. 30°C)
<b>Observations:</b>	Free of heavy metals according to RoHS Directive 2002/95/CE of 01/27/2003

### APPLICATION CHARACTERISTICS:

<b>Surface:</b>	Ferrous and non-ferrous
<b>Surface preparation:</b>	Ferrous: Phosphatization Non-ferrous: Chromatization or phosphatization*
<b>Cure conditions:</b>	10 minutes at 200 °C**
<b>Thickness:</b>	60 – 80 µm
<b>Application system:</b>	Electrostatic gun

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

TEST	METHOD	SPECIFICATION
ADHESION	WPS-3905	GR0
GLOSS	WPS-3854	Visual std.
IMPACT (REVERSE)	WPS-4130	Min. 50 kg X cm
FLEXIBILITY (CONIC MANDREL)	WPS-4856	Max. 3 mm

### CHEMICAL RESISTANCE \*\*\*

<b>Salt spray:</b>	Min. 500 h (ASTM B117 – 03)
<b>Humidity:</b>	Min. 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 chromatized aluminium panels in accordance with the cure and thickness specifications. The figures may be change, depending on the surface characteristics.

**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 appropriate adhesive and/or sealant.

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