

8005 ACRYLIC PU

Description

8005 ACRYLIC PU is a two component, acrylic, aliphatic, polyurethane coating. It contains active zinc phosphate pigments to provide corrosion protection. Suitable for metallic surfaces exposed to industrial-corrosive environment. It can be used as a single layer coating direct to the metal (DTM) providing corrosion protection. It exhibits excellent adhesion to ferrous and non-ferrous surfaces such as galvanized and stainless steel and metals such as aluminum and light alloys even without pretreatment of the surfaces. It presents high resistance to industrial environments, color stability and resistance to yellowing. It is offered after request in MIO (micaceous iron oxide), which contains organometallic iron oxide (micaceous) for extra anticorrosion protection. In MIO version offers permanent conductivity that prevents static electricity charges on industrial metallic surfaces (i.e., steel pipes, tanks etc.). It has a conductivity resistance < 10⁷ Ohm.

Technical Information

Shade	RAL – shades after request	
Gloss	Glossy: 70 gloss, 60° (EN ISO 2813) Mat: 20 gloss, 60° (EN ISO 2813), available upon request	
Specific Weight	A component	1,15 - 1,30 kg/ltr (depending on the base)
	B component	1,00 kg/ltr
	A+B	1,25 ±0,10 kg/ltr
	A component (MIO)	1,64 kg/ltr
	A+B (MIO)	1,58 ±0,10 kg/ltr (EN ISO 2811)
Solids	52% (±2) by volume	
Theoretical Coverage	8,4 m ² /kg (50 µm)	
Temperature Resistance	Up to 100°C (service temperature)	
Mixing Ratio	A:B-10:1 by weight (7,5:1 per volume)	
Pot life	2-3 hr (A+B -20°C) (with the temperature increasing, the times are shortened)	
VOC*	Ready to use maximum (+5% thinner): 499 g/ltr	
	EU LIMITS (2010): 500 g/ltr	
	Subcategory: j – Two pack reactive performance coatings, anticorrosive finishes, Type SB	

Drying Time (25°C)

Touch Dry	1-2 hrs
Drying	5-6 hrs
Full Drying	36-48 hrs

(The above times are indicative and depend on the thinning percentage, relative humidity and temperature)

Surface Preparation

The metallic surfaces, where the product will be applied on, should be cleaned from rust by sandblasting min. Sa 2 1/2. If it is not possible to remove rust, dust and foreign particles (such as oil, grease, etc.), they should be mechanically removed. For galvanized surfaces, it is recommended to degrease and treat the surface with sanding or other mechanical means. Cleaning the surface with soft sandblasting (brush blasting) is the most reliable method for achieving good adhesion of coating to the surface.

Application

Mix A:B-10:1 by weight. Then thinner is added. It is applied with:
Airless (nozzle 0,015-0,019in) up to 5% thinning with thinner
Air pistol (diameter: 1,8-2,2 mm) after the thinning of the product with up to 5% thinner.

Suggested film thickness	50-100 µm
Application temperature	5-30 °C
Surface temperature	5-30 °C
Relative humidity	< 70%
Dew Point	The substrate temperature should be at least 3 °C above the dew point.

Suggested thinners 1115-1131-2540
The choice of suitable thinner depends on the application method, the temperature and the humidity conditions.

For the suitable choice, please contact the technical department of our company.

The above conditions must be followed both during the application process and throughout the drying.

The surface where the product will be applied on must be clean and dry.

It is necessary to protect every layer from moisture (RH above 70%) for about 24 hours after the application.

Storage

For 12 months in a dry and cool place (5-35 °C) protected from direct solar radiation and adverse weather conditions, stored in the original unopened containers.

Safety

Please consult the Material Safety Data Sheet. Available upon request.

This Technical Data Sheet replaces and cancels every previously issued. The information, instructions, recommendations and specifications mentioned in this data sheet, represent the results and experience obtained from testing under controlled or specially adapted conditions. The accuracy and relevance of these results to the actual conditions, in which you apply the product, must be determined and depend only on the purchaser and/or applicator.