

## 5008 PU COATING

### Description

Two-component, high solids, aliphatic, polyurethane coating. Presents high gloss and it is non-yellowing. Suitable for metals (after their preparation with two-component anticorrosive primer) and for cement surfaces. It presents high durability, resistance to yellowing and UV-radiation, color stability, resistance to acid industrial environment and mechanical stress. It is suitable for heavy industrial constructions (heavy duty). Ideal for marine applications. It is recommended for the final coating of all epoxy coating systems and for the external protection of steel constructions like fuel/chemical storage tanks in power generation plants, petroleum refinery, nuclear stations, cement surfaces of industrial places, motorway tunnels etc. 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  $< 10^7$  Ohm.

### Technical Information

Shade	RAL shades	
Gloss	Glossy	
Mixing ratio	A:B-4:1 by weight (3:1 per volume)	
Specific weight	A component	1,18-1,32 kg/lit (depending on the base)
	B component	1,00 kg/lit
	A+B	1,20 ±0,10 kg/lit
	A component (MIO)	1,70 kg/lit
	A+B (MIO)	1,48 ±0,10 kg/lit (EN ISO 2811)
Solids	60% per volume	
Theoretical coverage	9,80 m <sup>2</sup> /kg (50µm)	
Pot life	3-4 hours (25°C)	
	5-6 hr (A+B+5% thinner, 25°C) (with temperature increasing, the times are shortened)	
Max temperature resistance	Up to 120°C (service temperature)	
VOC*	Ready to use maximum (+5% thinner): 495 g/lit EU LIMITS (2010): 500 g/lit Subcategory: j – Two pack reactive performance coatings, anticorrosive finishes, Type SB	

### Drying Time 25 °C, 60% RH, 50 µm

Touch Dry	2-2½ hrs
Drying (dry hard)	8 hrs
Full drying	48-72 hrs

*The above times are indicative and depend on the thinning percentage, the film thickness, the substrate conditions and the weather conditions (e.g., relative humidity, temperature, wind, sunshine).*

### Surface Preparation

It is recommended to apply sandblasting minimum Sa 2 ½ on metallic surfaces. If this is not possible then it is necessary to use mechanical means in order to clean and remove rust, dust and other material (e.g., oil, grease). The surface must be treated with a two-component primer (e.g., 812 epoxy primer).

### Application

4 parts of component A are mixed with 1 part of component B by weight (A:B - 4:1) and then thinner is added. It is important to stir both around the walls and at the bottom of the mixing container, so the hardener is evenly distributed.

It is applied with:

Airless (nozzle 0,38mm-0,48m, 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
Substrate temperature	5-30 °C
Dew point	The substrate temperature must be at least 3 °C higher than the dew point.
Relative humidity	<70%
Suggested thinners	1115 - 2540 The choice of suitable thinner depends on the application method, the temperature and the humidity conditions. For the suitable choice, please contact with 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 must be totally clean and dry. It should not be applied when rain is expected. It is necessary to protect every layer from moisture (>70%) and the rain for about 24 hours after the application.

## Storage

Up to 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.**