



**SWARCO VICAS SA**

Anticorrosive and decorative paints



**TWO COMPONENT POLYURETHANE SYSTEM**

**SWARCO** | First in Traffic Solutions.

## TWO-COMPONENT POLYURETHANE SYSTEM

### 1 Field of use. Characteristics

TWO COMPONENT POLYURETHANE SYSTEM can be used for:

- ✓ anticorrosive protection and decoration of ferrous metal surfaces, steel, aluminum, copper, brass, bronze or galvanized iron surfaces, exploited indoor and outdoor, located in environments with corrosivity class C1 ÷ C5I, M (from C1 - very low corrosion to C5 - very high industrial-I corrosion and Marine-M), including machinery and equipment;

Main features of TWO COMPONENT POLYURETHANE SYSTEM:

- ✓ physical-mechanical performances (adhesion to support, flexibility, hardness, impact resistance);
- ✓ resistance to aggressive climatic conditions (neutral saline fog, humidity with condensation water atmosphere, temperature variations);
- ✓ resistance in chemical media (mineral oil, gasoline, diesel fuel, alkaline solutions) .

### 2 System compoence

Product	Ferrous metal surfaces
Polyurethane primer	2 layers x 60-70 µm wet
Polyurethane enamel	2 layers x 60-70 µm wet

### 3 Technical data

Technical characteristic	Acceptance criteria	
	Polyurethane primer	Polyurethane enamel
Color	Grey, red oxide	On request, according to RAL card
Solid content, %, minim	70	45
Density, g/cm <sup>3</sup>	1.3 - 1.6	0.95 - 1.35
Mixing ratio (by weight) (mixture)*	100:4,5	100:9
Pot-life (mixture)*	8 hours	8 hours
Drying time, 23±2°C, hours:		
- touch	maximum 1	maximum 2
- final	maximum 2	maximum 10
Drying time, 80±2°C, hours	maximum 1	
Application conditions	Ambient temperature: 10÷35°C/ surface temperature: 10÷40°C/Relative humidity of the air max. 70%.	
Spreading rate	8-10 m <sup>2</sup> /kg mixture* and layer	10-12 m <sup>2</sup> /kg mixture* and layer
Note:* Component A (Polyurethane primer/Polyurethane enamel)+Component B (polyurethane hardener)		

### 4 Application methode

Methode	Polyurethane primer	Polyurethane enamel
	DILUTION (with PU thinner).	
○ AIRLESS: - nozzle diameter: 0.33-0.43 mm - pressure: 120-160 bar - viscosity: 35-50 sec. Ø 4 mm ○ Brush - viscosity: 35-50 sec. Ø 4 mm	maximum 5%	maximum 5%
○ Compressed air gun: - nozzle diameter: 1.2-1.8 mm - pressure: 3-4 bar - viscosity: 25-30 sec. Ø 4 mm ○ Roller: - viscosity: 25-30 sec. Ø 4 mm	maximum 20%	maximum 20%

Homogenise the products by mixing in the original containers prior to the processing. Mix Component A with the Component B (Polyurethane hardner) in the indicated mixing ratio, then homogenise.

The successive product layers (Polyurethane primer/Polyurethane enamel) are to be applied by the "wet on wet" method, ie after the solvent evaporation of the previous layer (about 15 minutes).

**TWO-COMPONENT POLYURETHANE SYSTEM****5 Preparing the surfaces**

The surface must be dry, clean and free of grease, oil or other impurities.

Repainting old coatings	Before applying the products to a surface where another layer of paint has been applied, compatibility with the previous layer must be checked. Applying the product to old paint layers should be done after mechanical roughening of the surface with abrasive discs.
Ferrous metal surfaces	Preparation up to grade Sa 2 ½ according to SR EN ISO 8504-2 (for surfaces prepared by sandblasting). Prepare to Mechanical Prepare 3 according to SR EN ISO 8504-3 (for manual or mechanical cleaning). Polyurethane primer must be applied within 4 hours from blasting / mechanical preparation. Application of enamel on metal surfaces must be done within 24 hours from the application of Polyurethane primer.

*NOTE: All application instructions, information regarding the field of use as well as the performance data in this Technical Data Sheet, are general in nature, therefore we recommend testing the products under the specific usage scope and user's own application technology. Please consult the manufacturer for additional clarifications. The final decision on the desirability for using the products is the exclusive responsibility of the user.*