



SWARCO VICAS SA

Anticorrosive and decorative paints



TWO-COMPONENT EPOXY SYSTEM

SWARCO | First in Traffic Solutions.

TWO-COMPONENT EPOXY SYSTEM

1 Field of use. Characteristics

TWO-COMPONENT EPOXY SYSTEM can be used for:

- ✓ anticorrosive protection and decoration of steel surfaces, used in indoor and outdoor spaces, 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;
- ✓ decorating and protecting concrete surfaces (including floors), exploited in industrial environments, chemical-aggressive environments.

Main features of TWO-COMPONENT EPOXY SYSTEM:

- ✓ physical-mechanical performances (adhesion to support, flexibility, hardness, impact resistance);
- ✓ resistance in chemical media (neutral saline fog, mineral oil, gasoline, diesel fuel, alkaline solutions).

2 System compoence

Product	Ferrous metal surfaces	Concrete surfaces
Epoxy primer for metal	2 layers x 60-70 µm wet	-
Epoxy primer for concrete	-	1-2 layers x100 µm wet
Epoxy paint	1 layer x 60-70 µm wet	-
Epoxy enamel	2 layers x 60-70 µm wet	2 layers x 60-70 µm wet

3 Technical data

Technical characteristic	Acceptance criteria			
	Epoxy primer for concrete	Epoxy primer for metal	Epoxy paint	Epoxy enamel
Color	colorless	On request, according to RAL card		
Solid content, %,minimum	14	70	65	55
Density, g/cm ³	0.85 - 0.92	1.1 -1.6	1.0 -1.45	1.0 -1.45
Mixing ratio (by weight) (mixture)*	100:14	100:14	100:20	100:30
Pre-reaction time (mixture)*	30 - 45 minutes			
Pot-life	10 hours	8 hours	8 hours	8 hours
Drying time, 23±2°C, hours:				
- touch	2-4	maximum 4	maximum 8	maximum 8
- final	maximum 6	maximum 12	maximum 24	maximum 24
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% /concrete humidity max.4%.			
Spreading rate	6,5-8 m ² /kg mixture* and layer	8-10 m ² /kg mixture* and layer		
Note:	* Component A (Epoxy primer for metal/ Epoxy primer for concrete/ Epoxy paint/ Epoxy enamel)+Component B (epoxy hardener)			

4 Application methode

Methode	Epoxy primer for concrete	Epoxy primer for metal	Epoxy paint	Epoxy enamel
	DILUTION after the prereaction period (with Epoxy 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 6%	maximum 5%	maximum 7%
○ Compressed air gun: - nozzle diameter:1.2-1.8 mm - pressure: 3-4 bar - viscosity: 25-30 sec. Ø 4 mm ○ Roller:	-	maximum 8%	maximum 7%	maximum 10%

S.C. SWARCO VICAS S.A. Gaesti Road 8, Targoviste 130087, Romania.

Tel.: +40 245 614345;+40 245 216713. Fax: +40 245 614345

E-mail: sales.vicas@swarco.com

TWO-COMPONENT EPOXY SYSTEM

Methode	Epoxy primer for concrete	Epoxy primer for metal	Epoxy paint	Epoxy enamel
	DILUTION after the prereaction period (with Epoxy Thinner).			
- viscosity: 25-30 sec. Ø 4 mm				

Homogenise the products by mixing in the original containers prior to the processing. Mix Component A with the epoxy hardener in the indicated mixing ratio, then homogenise and leave for pre-reaction for 30-45 minutes. The successive product layers (Epoxy Primer / Epoxy Paint / Epoxy Enamel) are to be applied by the "wet on wet" method, ie after the solvent evaporation of the previous layer (about 15 minutes).

Successive layers of primer for concrete are to be applied after the drying of the previous layer.

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). Epoxy primer must be applied within 4 hours from blasting / mechanical preparation. Application of paint / enamel on metal surfaces must be done within 24 hours from the application of epoxy primer.
Concrete	Surface components that prevent adhesion to new layers (fine mortar / concrete slurry) must be removed by appropriate processes (eg high pressure water, fine milling, etc.). The new surfaces to be painted must be fully cured (eg, the conventional time allowed for concrete hardening is 28 days at 20 ° C). Removal of eventual efflorescence by scraping with mechanical shims / procedures at 15-day intervals. Operations continue only after efflorescence has stopped. When painting concrete surfaces or stone pavements, it is recommended to apply a layer of Epoxy Primer. The primer will seal the pores of the substrate and prevent the bubbles from appearing in the email layer. Applying enamel to concrete surfaces must be done within 8 hours from the application of Epoxy 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.