

TECHNICAL DATA SHEET

Date of issue: 30/04/2012

Last updating:n°2 07/02/2017



Name:	EPOPAV SL	Category:	A-j
Definition:	Epoxy enamel for flooring	V.O.C. limit:	500 g/l
Code:	25.2	V.O.C. ready to use:	120 g/l
Product according to 2004/42/CE			

NATURE OF THE PRODUCT

Epoxy topcoat based on liquid epoxy resins and cycloaliphatic amines.

GENERAL USES

Ideal for preparation of industrial concrete floors, indicated when heavy traffic is working on them. The produce has to be applied on concrete that have been previously saturated with an epoxy primer (our 29.1.00001 o 29W2.00001) or hygrohardening polyurethane primers.

APPLICATION METHOD

PREPARATION OF SURFACES

The realization of a resin floor is a delicate process if you consider the medium working life requested to such floors and the long working time requested to realize them. This is the reason why the process has to be painstaking since the cleaning and preparation of the surface.

- 1) On new concrete floor with at least 4 weeks of aging, perform a sanding process with mechanical brush machine using abrasive paper 80 or 120 or an acid washing process. Remove dust with aspiration, clean and let dry. Apply the insulator primer and within 24-48 hours apply the product.
- 2) On old concrete floor: perform a sanding process with mechanical brush machine using abrasive paper 80 or 120 or an acid washing process, if the floor has not evident damages and is not crumbled. Otherwise, a scarification process is necessary. Remove dust with aspiration, clean and let dry. Apply the insulator primer and within 24-48 hours apply the product. in case of scarification process have been actuated, restore the floor with a concrete or epoxy levelling mortar, let them age as requested and then proceed with the application of primer and top coat or top coat directly on the mortar, (with previous sanding).
- 3) On old concrete floor with old resin applied, if the resins are only partially spoiled but have still good adhesion on the surface, sanding with abrasive paper 120 is enough, then remove dust with aspiration, clean and let dry then apply the product (you need a primer only if sanding process will take away all the old resin). If the old resin floor will show a not good adhesion, sanding process is necessary to remove all the old resin from concrete. Then restart from point 1.
- 4) Iron: SA2 1/2 sandblasting or very careful mechanical abrasion followed by degreasing using thinners, then proceed with the direct application of the product or, if preferred with the application of a primer and then the top coat.

PREPARATION OF THE PRODUCT

	Code	name	By weight
Component A	25.2	Epopav	100
Component B	02.031	Eporex for epopav	15

Carefully mix until an even colour and consistency are obtained. Mix the 2 components with an electrical stirrer for 60 seconds. No dilution is requested or for standard roller-brush application maximum 5% dilution with epoxy thinner 07.006. The same thinner is suggested for final cleaning of the tools

WARNING: apply the product within 20 minutes from catalysis process.

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APPLICATION

Airless. nozzle 0,09 inches, 180-240 bar

Brush/roller Only for large surfaces

TECHNICAL DATA

PRODUCT TYPE: Two-pack product

APPEARANCE (ASTM D 523): Semigloss (80±5 gloss). With the use and the first washings, it will become more semimatt, and at this point the gloss will not change anymore and the floor appearance will be homogeneous.

COLOURS: By request (the binder 25.2.K1 has to be used in a ratio 91/9 with the tinting system solvent tinters)

SPECIFIC WEIGHT (ISO 2811): 1,65 g/cm³ comp.A (±0,10)
1,06 g/cm³ comp.B (±0,05)

SUPPLY VISCOSITY: 300±20 Pa at 25°C

SOLID ON VOLUME: A + B 59% (± 2%)

SOLIDS CONTENT: A + B 91% (± 2%).

DRYING AT 20°C

- Dust dry: 2 hours
- Touch dry: 8 hours
- Total hardening: 24-36 hours
- Forced drying¹: 30' at 60°C
- Maximum chemical resistance: After 7 days

RECOMMENDED COATS: Two crossed coat applied by short haired roller

THICKNESS²: 200-300 µm

THEORETIC YIELD: 3-4 m²/kg

POT-LIFE AT 20° C: 20 minutes at 25°C. At higher temperatures, the pot-life of the product decreases. Over pot life time catalysis's speed increases very fast, the product starts heating and becoming more and more viscous and therefore not usable. It becomes hard in the can.

ADHESION (ASTM D 4541): Pull-off test, at 3.5 MPa the concrete support cracks.

¹ By forced drying the film could be slightly matter than when dried at room temperature. This fact does not compromise the chemical and mechanical features of the product, on the contrary it withstands better high temperatures.

² Considering a dry film.

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CHEM. RESIST .³ (UNI EN ISO 12720):

Hydrochloric acid-HCl solut. 10%	vote	5	7days
Nitric acid-HNO ₃ solut. 10%	vote	2	2 days
Sulphuric acid-H ₂ SO ₄ solut. 10%	vote	5	7 days
Acetic acid solut. 10%	vote	1	2 days
Mix of NaCl 10%, Lactic acid 5%	vote	5	7 days
Synthetic sweat	vote	5	7 days
Hydrogen peroxide 35%	vote	5	7 days
Ammonia solut. 30%	vote	5	7 days
Sodium hydroxide solut. 10%	vote	5	7 days
Acetone	vote	5	7 days
Cyclohexanone	vote	5	7 days
Solvesso 100	vote	5	7 days
Ethyl acetate	vote	2	7 days
Ethanol	vote	4	7 days
Synthetic oil	vote	5	7 days
Idraulic oil	vote	5	7 days
Transmission oil SAE 30	vote	5	7 days
Engine oil 15W40	vote	5	7 days
Unleaded gasoline	vote	5	7 days
Oliv oil	vote	5	7 days

REPAINTING: Within 48 hours. After complete hardening, it is necessary to scratch before overcoating.

STORAGE STABILITY: Two years, stored in closed packs, in a cool, dry place, away from any sources of heat.

³ The quality of chemical resistance goes from a value of 5 (means optimum) to 1 (means not good). For further information please contact Siro's technical service.