Name BINDER EPOXY SEMI GLOSS FOR CONCRETE
Definition: **Epoxy enamel for flooring**
Code: **2E.2.K1**

Category: A-j
V.O.C .limit: **500 g/l**
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 2I.1.00001 o 2IW2.00001) or hygro hardening 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.

- **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.
- **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).
- **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.
- **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	2E.2.K1(TINTED)	Epoxy S.G for Concrete	100
Component B	0B.031	Activator for Epoxy	15

Carefully mix until an even color 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 0G.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 semi matt, and at this point the gloss will not change anymore and the floor appearance will be homogeneous.	
COLOURS:	By request (the binder 2E.2.K1 has to be used in a ratio 91/9 with the tinting system solvent tinters)	
SPECIFIC WEIGHT (ISO 2811):	1,75 g/cm^3 comp.A (±0,10) 1,06 g/cm^3 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 drying[1]:	30' at 60°C
	Maximum chemical resistance:	After 7 days
RECOMMENDED COATS:	Two crossed coat applied by short haired roller	
THICKNESS [2]:	200-300 μm	
THEORETIC YIELD:	3-4 m^2/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.	

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[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 fi

Name**BINDER EPOXY SEMI GLOSS FOR CONCRETE**
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Category: A-j
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V.O.C (ready to use)**:120 g/l**
Product according to 2004/42/CE

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.