EP COAT 100



100% solids, pigmented performance epoxy coating for flooring applications

DESCRIPTION

Pigmented, 2-component epoxy coating for concrete surface protection. Designed for general purpose uses in multilayer systems, from the primer coat to the topcoat layer.

APPLICATION

Multilayer protective coating for heavily used concrete floors, in all kind of indoor areas.

- Industrial flooring
- Poorly ventilated areas.
- Parking decks.
- Warehouses.
- Shops.

This material can be used as a primer and as a component of all the steps in a multilayer system. Also suitable as a self-leveling flooring resin. The different available option depend on the application choices, fillers and the pigmentation options.

CERTIFICATIONS



- Fire behaviour: Exp 14/RC-15 (FCBA, France)
- CE Marking

FINAL PRODUCT INFORMATION				
		•		
Final state	Rigid, glossy, homogeneous ma	aterial		
Colour	Pigmented. Available colours RAL 1001, 3009, 5015, 6021, 7001, 7011, 9003, 9004, 6002, 8001. Other colours under request.			
Hardness (Shore) (ISO 868)	80D			
Fire behaviour	Bfl-s1 (EN 13501-1:2007)			
UV resistance	Undergoes slight yellowing under sunlight, hardly noticeable in indoor applications. No mechanical properties are affected. It is not evident for most colours.			
Use temperature	Stable up to 80°C			
Mechanical properties	Elongation: 2,5% Tensile strength: 17 MPa Tear: 29 N/mm			
Chemical resistance	Surface contact, (0=worst, 5=best)			
	Chemical	Result		
	Vinegar (7 days)	5		
	Sulphuric acid 96% (24h)	2		
	Hydrochloric acid 5% (24h)	4		

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION				
	Component A		Component B	
Chemical description	Epoxi resin		Polyamine mixture	
Physical state	Líquid		 Líquid	
Packaging	Metal container		Metal container	
. uo.uugg	12 kg		3 kg	
Non- volatile content	>95%		98%	
(%) approximate				
Flash point	>120°C		>100°C	
Colour	Pigmented		Colourless	
Density	Temp	Density	Temp	Density
	(°C)	(g/cm3)	(°C)	(g/cm3)
	25	1.14	25	1,05
Viscosity	Temp(°C)	Viscosity	Temp	Viscosity
Brookfield approximate	25	(mPa.s) 1500-3500	(°C)	(mPa.s) 83
	25	1500-5500	25	150
			15 5	320 800
				600
VOC	<10g/L, <2%		20 g/L, <2%	
Relation A/B	A=100, B=25 en peso			
Mixture properties	1,10 g/cm3 at 23°C 1000 mPa.s at 23°C Pigmented			
Pot life	Ten	пр	Pot life	
	(°C	•	(100 g, min)
	6		>70	
	25	5	40	
	35	5	25	
Storage	Keep between 15° and 30°C. Component A may			

and stirring it thoroughly

12 months after manufacturing date

SUPPORT REQUIREMENTS

In order to achieve a good degree of penetration and bonding, support must be:

- 1. Flat and leveled (Product is self-leveling)
- 2. Compact and cohesive (pull off test must show a minimum resistance of 1,4 N/mm2).
- 3. Even and regular surface
- 4. Free from cracks and fissures. If any, they must be previously repaired.
- 5. Clean and dry, free of dust, loose particles, oils, organic residues or laitance.

SUPPORT PREPARATION

Concrete surfaces must be previously prepared by sandblasting or any other suitable means. Remove all dust and loose material before priming.

RECOMMENDED ENVIRONMENTAL CONDITIONS

Support temperature must be 3°C above dew point at least. Air temperature should be above 5°C and relative humidity less than 80%. Maximum application temperature is 40°C.

Best conditions are 15°C-30°C. These conditions should be maintained along all the curing time. Application should be done with plenty of air ventilation.

MIXING

Stir and homogeneize thoroughly component A and B using a low-speed stirrer. The mixture turns to a homogenous clear liquid. Mix the quartz filler afterwards if desired. Do not mix more material than the usable amount within the pot life window.

APPLICATION

Pure resin requires roller or rubber spreader os squeegee. Combinatins with filler require application by metal spreader.

CURING TIME

Application 1 kg/m2.

Conditions	Touch dry (h)
35°C, 25%hr	2
35°C, 50% hr	8
23°C, 5% hr	9
7°C, 60%hr	>20
-15°C,	No cure



Use before

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crystallize if stored for protracted periods under certain conditions. If this occurs, it can be restored to its original condition by heating it to 70 - 80 °C

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REAPPLICATION

Normally possible after 24 hours.

RETURN TO SERVICE

Light traffic allowed after 24-48 hours. Final hardness is achieved after 7 days (approximate). Caution: contact with water when not fully cured may lead to white stains.

QUESTIONS

Problem	Cause	Solution
Reaction is too fast.	Too much product	If mixed in smaller
Short pot life	mixed	volumes or the
		mixtrure is spreaded
		as soon as it is ready,
		pot life is longer.

TOOL CLEANING

Clean tools with Solvent Rayston.

SAFETY

Epoxy components are potentially sensitizing. Component B is corrosive. Always follow instruction provided in the Material Safety Data Sheet. As a general rule, suitable skin and eye protection must be worn. This product is

intended to be used only for the uses and in the way here described. This product is to be used only by industrial or professional users. It is not suitable for DIY-type uses.

ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste, and transfer them to an authorized waste manager. If the containes still have some material left, do not mix with other product before considering the risk of potential dangerous reactions. Never mix in volumes larger than 5 litres in order to prevent a dangerous heat evolution.

OTHER INFORMATION

The information contained in this DATA SHEET, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information.

We recommend to study deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests "on-site" in order to determine their convenience for a specific project. Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise. The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.

This Data Sheet supersedes previous versions.



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