EP COAT 100





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.

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION			
Comp	onent A	Comp	onent B
Epoxy resin		Polyamine mixture	
Liquid		Liquid	
Metal container 20 kg		Metal container 5 kg	
>95%		9	8%
>120°C		>10	00°C
Pigmented		Colo	urless
Temp (°C)	Density (g/cm ³)	Temp (°C)	Density (g/cm ³) 1,05
	Composition Epox Lie Metal c 20 >9 >12 Pigm	Component A Epoxy resin Liquid Metal container 20 kg >95% >120°C Pigmented Temp (°C) (g/cm³)	Component A Component A Epoxy resin Polyamir Liquid Lic Metal container Metal container 20 kg 5 >95% 96 >120°C >10 Pigmented Colo Temp (°C) (g/cm³) Temp (°C)

Viscosity	,
VISCOSITY	

Approximate values	
Brookfield	

Viscosity
(mPa.s)
1900
3000
4600

Temp	Viscosit
(°C)	У
	(mPa.s)
35	83
25	150
15	320
5	800

VOC	<10 g/L, <2%	20 g/L,<2%	
A/B mixing ratio	A=100, B=25 by weight		
Mixture properties	Density: 1,49 g/cm³ at 23°C Viscosity: 1200 mPa.s at 23°C		
Pot life	Temp (°C)	Pot life (100, min)	
	6	>70	
	25	40	
	35	25	
Storage	Keep between 15°C and 30°C. Component A may		
	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		
	and stirring it thoroughly.		
Use before	12 months after manufacturing date.		

INFORMATION ON THE FINAL PRODUCT

Final state Rigid, glossy, homogeneous material

Colour	Pigmented. Available colours RAL 1001, 3009, 5015,
	6021, 7001, 7011, 9003, 9004, 6002, 8001. Other
	colours under request.
Hardness (shore)	80D (ISO 868)
Fire behaviour	Bfl-s1 (EN 13501-1:2007)
UV resistance	Undergoes slight yellowing under sunlight. No
	mechanical properties are affected.
Use temperature	Up to 80°C
Mechanical	Maximum elongation: 2,5%
properties	Tensile strength: 17 MPa
-	Tear: 29 N/mm
Chemical	Permanent contact (3 days, 80°C)
resistance	

Chemical	%weight gain
Water	0
Methoxypropyl	5
acetate	
Isopropyl alcohol	0
Skydrol	0
Xylene	3
Ammonia (3%)	0
Acetone	25
Diesel	0
Hydrogen peroxide	0
Sodium hydroxide	0
(40 g/L)	
Bleach	2
Sulphuric acid (10%)	0
Sulphuric acid (30%)	0
Sulphuric acid (50%)	0
Acetic acid (10%)	2

Surface contact (24h, room temperature, 5=ok, 0=not recommended)

Chemical	Result
Water	5
Ethyl alcohol	5
Engine oil	5
Vinegar	5
Hydrogen peroxide	5
Sulphuric acid (10%)	5
Sulphuric acid (30%)	5
Sulphuric acid (50%)	4
Isopropyl alcohol	4
Xylene	5
Ammonia (3%)	5
Diesel	5
Methoxipropyl acetate	4
Acetic acid (10%)	5
Bleach	5
Sodium hydroxide	5
(40 g/L)	
Acetone	3
Skydrol	5

SUPPORT REQUIREMENTS

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

- 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

The recommended temperature of the support is 15 -25 $^{\circ}$ C, but not less than 10 The temperature of the support must exceed the "dew point" by 3 $^{\circ}$ C during application and drying.

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



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100% solids, pigmented performance epoxy coating for flooring applications



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. The pure resin is applied to roller or rubber rake. Combinations with aggregates may require the use of a metal trowel. In light colors it may be necessary to have more than 2 coats depending on the base color to obtain a good covering

CURING TIME

Application 1 kg/m².

2
8
9
>20
No cure

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. Short pot life	Too much product mixed	If mixed in smaller 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 heatevolution.

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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