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 kinds 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 depends on the application choices, fillers and the pigmentation options.

TECHNICAL DATA

INFORMATION ON	THE PROD	UCT BEFOR	RE APPLICA	TION	
	Component A		Compo	Component B	
Chemical description	Epoxy resin		Polyamine mixture		
Physical state	Liquid		Lic	Liquid	
Packaging	Metal container		Metal c	Metal container	
	20 kg		5 kg		
Non-volatile content	>95%		98%		
Flash point	>120°C		>100°C		
Colour	Pigmented		Colourless		
Density	Tempera	Density	Tempera	Density	
	ture (°C)	(g/cm ³)	ture (°C)	(g/cm ³)	
	25	1.57	25	1.05	
Viscosity	Tempera	Viscosity	Tempera	Viscosity	
	ture (°C)	(mPa.s)	ture (°C)	(mPa.s)	
	25	3000	25	150	
VOC	<10 g/L, <2% 20 g/L, <2%		., <2%		
A/B mixing ratio	A=100, B=25 by weight				
Mixture properties	Density: 1.49 g/cm ³ at 23°C				
	Viscosity: 1200 mPa.s at 23°C				
Pot life	Temperature (°C)		Pot life (100g, 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, in its				
	unopened container.				

INFORMATION ON THE FINAL PRODUCT			
Final state	Rigid, glossy, homogeneous material		
Colour	Pigmented. Available colours are RAL 1003, 1014,		
	2010, 3002, 3009, 5015, 5017, 6002, 7001, 7004,		
	7011, 7035, 8024, 9005, 9003. 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.		
Thermal	Up to 80°C		
resistance			
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 (40	0	
	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 (40	5
g/L)	
Acetone	3
Skydrol	5

SUPPORT REQUIREMENTS

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

- 1.Flat and levelled (product is self-levelling)
- 2. Compact and cohesive (pull off test must show a minimum resistance of 1,4 $\mbox{N/mm}^2\mbox{)}.$
- 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.



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100% solids, pigmented performance epoxy coating for flooring applications



SUPPORT PREPARATION

Concrete surfaces must be previously prepared by sandblasting or any other suitable means. Remove all dust and loose material before priming. The recommended temperature of the support is 15-25°C, but not less than 10°C. The temperature of the support must exceed the "dew point" by 3°C during application and drying.

RECOMMENDED ENVIRONNMENTAL CONDITIONS

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

MIXING

Stir and homogenize thoroughly component A and B using a low-speed stirrer. The mixture turns to a homogeneous 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 or squeegee. Combinations with filler requires 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. Colours as RAL 1003, 1014, 2010, 3002 and 9003 will have a consumption of 600 g/m², usually applied in several layers.

CURING TIME

Application: 1 kg/m²

Conditions	Dry to touch (h)
35°C, 25% rh	2
35°C, 50% rh	8
23°C, 5% rh	9
7°C, 60% rh	>20
-15°C	No cure

RECOATING

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. The application of the product at temperatures below 10°C could cause waterspotting effect. If applications below 10°C are suspected, it will be advisable to apply a sealing layer before 24h of Colodur ECO.

TOOL CLEANING

Component A and B can be cleaned with solvent Rayston. Cured product cannot be dissolved.

FAQ

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

SAFETY

Epoxy components are potentially sensitizing. Component B is corrosive. Always follow instruction provided in the Material Safety Data Sheet. As a 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 taking the same precautions as if they were full. Containers must be considered as hazardous waste, to be transferred to an authorized waste manager. If there is some residual product in the containers, component A and B can be mixed, always according to the A/B ratio, and allowed to cure. Do not mix volumes bigger than 5 litres to prevent dangerous reactions.

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 studying 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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