EP COAT 100 CLEAR

100% solids, colourless performance epoxy coating for flooring applications

RAYSTON

DESCRIPTION

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

ADVANTAGES

Multilayer protective coating for heavily used concrete floors, in all kinds of indoor areas:

- Industrial flooring
- Poorly ventilated areas.
- Car parks.
- 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 PRODUCT BEFORE APPLICATION					
	Component A		Component B		
Chemical description	Ероху	resin	Polyamine mixture		
Physical state	Liq	uid	Liquid		
Packaging	Metal co	ontainer	Metal container		
	10	kg	5 kg		
Non-volatile content	>9	5%	98%		
Flash point	>12	>120°C		>100°C	
Colour	Colou	ırless	Colourless		
Density	Temperat	Density	Temperat	Density	
	ure (°C)	(g/cm ³)	ure (°C)	(g/cm³)	
	25	1,14	25	1,04	
Viscosity	Temperat	Viscosity	Temperat	Viscosity	
	ure (°C)	(mPa.s)	ure (ºC)	(mPa.s)	
	25	150	25	280	
VOC (g/L and %)	<10 g/L, <2%		20 g/L, <2%		
VOC class as per					
2004/42/EC					
A/B mixing ratio	A=100, B=50 by weight				
Mixture properties	Density: 1,01 g/cm ³ at 23°C				
	Viscosity: 480 mPa.s at 23°C				
Pot life	Temperature (°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				
OGC DEIDIE	i∠ months after manufacturing date				

INFORMATION ON THE FINAL PRODUCT Final state Rigid, glossy, homogeneous material		
Hardness (Shore)	80D (ISO 868)	
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 resistance

Permanent contact (3 days, 8	80°C)
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Chemical	% weight gain
Water	0
Methoxy propyl	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
Methoxy propyl	4
acetate	
Acetic acid (10%)	5
Bleach	5
Sodium hydroxide (40	5
g/L)	
Acetone	3
Skydrol	5

SUPPORT REQUIREMENTS

To achieve a good penetration and bonding, support must be:

- 1. Flat and levelled (product is self-levelling)
- 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. 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.



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Latest update: 05/08/2024

Page: 1/2

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RECOMMENDED ENVIRONMENTAL 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 GUIDELINES

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.

FLOORING LEVELING APPLICATION

TEGORING ELVELING	S ALL EIGHT ON	
Application	Product	Consumption
Smooth levelling	EP Coat 100 Clear +	1.7 kg/m²/mm
mortar	Sand (0.1-0.3 mm),	
Surface roughness:	with a ratio of 1:0.5	
<1 mm		
Medium leveling	EP coat 100 Clear +	1.9 kg/m²/mm
mortar	Sand (0,1-0,3mm), with	
Surface roughness:	a ratio of 1:1	
up to 2 mm		
Intermediate self-	EP coat 100 Clear (0.1-	1.9 kg/m²/mm
levelling layer: 1.5 to 3	0.3mm), with a ratio of	Aprox. 4 kg/m ²
mm	1:1	
	Optional quartz	
	broadcast: 0.4-0.8mm	
Union layer	EP Coat 100 Clear	0.3-0.5 kg/m ² /mm
High coating	EP coat 100 Clear +	2.2 kg/m²/mm
Thickness:15-20mm/	*Sand, with a ratio of 1:	
repair	8	
mortar		

*Thicknesses granulometry about 15-20 mm:

- 25% quartz sand 0,1-0,5 mm
- 25% quartz sand 0,4-0,7 mm
- 25% quartz sand 0,7-1,2 mm
- 25% quartz sand 2-4 mm

Note: The maximum grain size should be 1/3 of the final thickness of the layer. This information is theoretical and do not include additional material due to porosity, surface roughness, unevenness, etc. of the pavement.

CURING TIME

Application 1 kg/m²

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

REAPPLICATION

Normally possible after 12-24 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 $^{\circ}\text{C}$ could cause waterspotting effect.

If applications below 10°C are suspected, it will be advisable to apply a sealing layer before 24h.

FAQ

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

TOOL CLEANING

Cleaning tools with Rayston Solvent.

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 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 containers still have some material left, do not mix with other product before considering the risk of potentially dangerous reactions. Never mix volumes larger than 5 liters 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" 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 inobservation 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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Page:

2/2