

EP NIVEL / EP NIVEL CLEAR

RAYSTON
products



Self-levelling epoxy coating

DESCRIPTION

Self-levelling colorless or pigmented epoxy coating for surface protection. Allows obtaining self-leveling flooring 2-3 mm thick in one coat. Suitable for concrete floors exposed to intense use in all kinds of indoor areas. Can be completed with up to 33% of mineral filler. One part of resin: 0,5 of aggregate 0,1 - 0'3 mm.

APPLICATION

Designed for applications in dry zones. Usable on wet zones if sand is broadcasted on top. Smooth, glossy finish and easy to clean.

Best suited for:

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

CERTIFICATIONS

CE Marking. EN 13813:2002 Cfl-SR-B2,0-AR0,5-IR14,7. DoP 20-734



TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
Chemical description	Epoxi resin	Polyamine mixture
Physical state	Liquid	Liquid
Packaging	Metal container (colorless) 10 kg Metal container (pigmented) 20.9 kg	Metal container (colorless) 5 kg Metal container (pigmented) 4.1 kg
Non-volatile content	>95%	98%
Flash point	>120°C	>100°C
Colour	Colorless or pigmented	Colorless
Density	Colorless: 1.14 g/cm³ (25°C) Pigmented: 1.68 g/cm³ (25°C)	Colorless: 1.05 g/cm³ (25°C) Pigmented: 1.05 g/cm³ (25°C)
Viscosity	Colorless: 500 mPa.s (25°C) Pigmented: 2000 mPa.s (25°C)	Colorless: 200 mPa.s (25°C) Pigmented: 250 mPa.s (25°C)
VOC	7g/L, <0.7% (colorless) <10g/L, <2% (pigmented)	20 g/L, <2%
Mixing ratio	A=100, B=40 by weight (colorless) A=100, B=19 by weight (pigmented)	
Mixture properties	Colorless 1.06 g/cm³ at 23°C 236 mPa.s at 23°C Pigmented 1,6 g/cm³ at 23°C 1700 mPa.s at 23°C	
Pot life	Temperature (°C) 6 25 35	Pot life (100 g, min) >70 40 25
Storage	Keep between 10° 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)
Mechanical properties	Maximum elongation: 8% Tensile strength: 23 MPa
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

Adhesion strength	Surface	Adhesion (MPa)
	Concrete (EP 100 primer)	>5

Chemical resistance	Permanent contact (3 days, 80°C)	
	Chemical	% weight gain
	Water	0
	Methoxypropyl acetate	25
	Isopropyl alcohol	5
	Skydrol	0
	Xylene	10
	Ammonia 3%	0
	Acetone	25
	Diesel	0
	Hydrogen peroxide	0
	Sodium hydroxide	0
	40g/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
Methoxypropyl acetate	4
Acetic acid 10%	5
Bleach	5
Sodium hydroxide	5
40g/L	
Acetone	3
Skydrol	5



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SUPPORT REQUIREMENTS

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 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 10°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 homogenise thoroughly component A and B using a low-speed stirrer. The mixture turns to a homogenous clear liquid. It can be mixed with 0.1-0.3mm sand at a ratio of resin:1, filler: 0.5. 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 require application by metal spreader. Pass a spike roller while still liquid.

CONSUMPTION

Consider a consumption of 3 kg/m². In EP Nivel Clear, in combination with metallic pigments the consumption per layer will be 0.8-1 kg/m² in background layers, and 1-1.5 kg/m² in the decorative layer.

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

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

QUESTIONS

Problem	Cause	Solution
Reaction is too fast. Short pot life	Too much product mixed	If mixed in smaller volumes or the mixture is spreaded asap, 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 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 contains still have some material left, do not mix with other product before considering the risk of potentially dangerous reactions. Never mix in volumes larger than 5 litres 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 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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