

EP Nivel

SELF-LEVELING EPOXY COATING

DESCRIPTION

Self-leveling pigmented epoxy coating for surface protection (clear version under request). Allows to obtain self-leveling flooring 2-3 mm thick in one coat. Suitable for concrete floors exposed to intense use in all kind of indoor areas.

APPLICATIONS

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.

It can also be used as primer for all the multilayer or self-leveling epoxy systems. Different combinations are available depending on the chosen system, fillers and desired pigmentation.

CERTIFICATIONS

- CE Marking

EN 13813 SR-B2,0-AR0,5-IR14,7



Technical Data

INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
Chemical description	Pigmented epoxy resin	Polyamine mixture
Physical state	Liquid	Liquid
Packaging	Metal container	Metal container
	10 kg	5 kg
Non-volatile content (%) Approximate	>95%	98%



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Flash point	>120°C	>100°C
Colour	Pigmented (colourless under request)	Clear yellow

Density	Temperature	Densidad	Temperature	Densidad
	(°C)	(g/cm3)	(°C)	(g/cm3)
	25°C	1.13	25	1,05

Viscosity Approximate Brookfield	Temperature	Viscosity	Temperature	Viscosity
	(°C)	(mPa.s)	(°C)	(mPa.s)
	35	70	35	83
	25	150	25	150
	15	300	15	320
	5	500	5	800

VOC content	<10g/L, <2%	20 g/L, <2%
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Mixing ratio A/B	A=100, B=50 by weight A=100, B=54 by volume
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Mixture properties	Density: 1,10 g/cm3 at 23°C Viscosity :500 mPa.s at 23°C Colour: pigmented (colourless under request)
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Pot life Approximate	Temperature	Pot life
	(°C)	(100 g, minutes)
	6	>70
	25	40
	35	25

Storage	Keep between 10° and 30°C
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Use before	12 months after manufacturing date
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INFORMATION ON THE FINAL PRODUCT

Final state	Rigid, homogeneous material
Colour	Pigmented. Available colours RAL 1001, 3009, 5015, 6021, 7001,7011, 9003, 9004, 6002, 8001. Other colours available under request.
Hardness Shore (ISO 868)	65D
Mechanical properties	Maximum elongation: 8% Tensile strength: 23 MPa
Solid density	1,15 g/cm3



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UV resistance

Undergoes slight yellowing under sunlight. No mechanical properties are affected. Depending on the pigmentation, this yellowing is not noticeable.

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 (40 g/L)	0
Bleach	2
Sulphuric acid (10%)	0
Sulphuric acid (30%)	0
Sulphuric acid (50%)	0
Acetic acid (10%)	2

Surface contact (24 h, 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 (40 g/L)	5
Acetone	3
Skydrol	5

Adhesion strength

Surface	Adhesion (MPa)
Concrete	>0.05

Use temperature

Stable up to 80°C



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APPLICATION GUIDELINES

Recommended combinations

Recommended for 2-3 mm thick coats

Option 1:

Primer: Rayston Epoxy Primer: 150 g/m²
EP Nivel: 3 kg./m²

Option 2: Antislip.

Primer: Rayston Epoxy Primer: 150 g/m²
EP Nivel: 3 kg./m²
Quartz sand 0.1-0.3 mm, spreaded at 1 kg./m².
EP Multilayer. 1 coat of 150 g/m²

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.

Recommended environmental conditions

Support temperature should be between 15°C and 40°. At higher temperatures, specific precautionary measures must be taken. Please follow manufacturer advice.

Support preparation

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

Mixing

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

Application

Apply by toothed spreader (5 mm gap) for a final 2-mm thickness.

Curing time

Approximate

3 kg/m² applications.

<i>Conditions</i>	<i>Touch dry (h)</i>
35°C, 25%rh	2
23°C, 50% rh	8
23°C, 5% rh	9
7°C, 60°rh	>20
-15°C	no cure

Reapplication

Not usually necessary.

Return to service

Applied product is resistant to light traffic in 24-48 hours, depending on ambiental conditions. Maximum hardness is achieved after 7 days (approximate).

Questions

<i>Question</i>	<i>Cause</i>	<i>Solution</i>
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.



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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 containers 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	<p>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.</p> <p>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.</p> <p>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.</p> <p>This data sheet supersedes previous versions.</p>

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