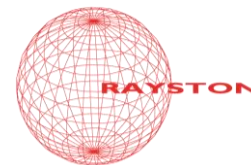


# EP NIVEL (1:0,5)



## Self-levelling epoxy coating

### DESCRIPTION

Self-levelling pigmented epoxy coating for surface protection (clear version under request). Allows obtaining self-levelling flooring 2-3 mm thick in one coat. Suitable for concrete floors exposed to intense use in all kind of indoor areas. Supplied in two versions: Version 1:0,5 can be completed with up to 33% of mineral filler. Versions 1:1,5 can be loaded with up to 60%.

### 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.

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

### CERTIFICATIONS



- CE Marking

### TECHNICAL DATA

#### INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
<b>Chemical description</b>	Epoxi resin	Polyamine mixture
<b>Physical state</b>	Líquid	Líquid
<b>Packaging</b>	Metal container 10 kg see 1:1,5 12 kg see 1:0,5	Metal container 5 kg see 1:1,5 3 kg see 1:0,5
<b>Non- volatile content (%) approximate</b>	>95%	98%
<b>Flash point</b>	>120°C	>100°C
<b>Colour</b>	Pigmented	Colourless
<b>Density</b>	Temp (°C)	Temp (°C)
	Density (g/cm3)	Density (g/cm3)
	25 (See 1:1,5)	25 1,05
	1,13-1,14 (see 1:0,5)	
	1,30	
<b>Viscosity</b>	Temp (°C)	Temp (°C)
<b>Brookfield approximate</b>	See (1:1,5)	See (1:0,5)
	35 70 500	35 83
	25 150 1000	25 150
	15 300 3000	15 320
	5 500	5 800
<b>VOC</b>	<10g/L, <2%	20 g/L, <2%
<b>Relation A/B</b>	A=100, B=25 en peso	
<b>Mixture properties</b>	1:1,5 A=100, B=50 by weight A=100, B=54 by volume	
	1:0,5 A=100, B=25 by weight	

<b>Mixture properties</b>	1,10 g/cm3 at 23°C 500 mPa.s at 23°C (1:1,5) 1000 mPa.s at 23°C (1:0,5)	
<b>Pot life</b>	Temp (°C)	Pot life (100 g, min)
	6	>70
	25	40
	35	25
<b>Storage</b>	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.	
<b>Use before</b>	12 months after manufacturing date	

#### INFORMATION ON THE FINAL PRODUCT

<b>Final state</b>	Rigid, glossy, homogeneous material
<b>Colour</b>	Pigmented. Available colours RAL 1001, 3009, 5015, 6021, 7001, 7011, 9003, 9004, 6002, 8001. Other colours under request.
<b>Hardness (Shore) (ISO 868)</b>	80D
<b>Mechanical properties</b>	Maximum elongation: 8% Tensile strength: 23 MPa
<b>Solid density</b>	1,15 g/cm3 (1:1,5) 1,30 g/cm3 (1:0,5)
<b>Fire behaviour</b>	Bfl-s1 (EN 13501-1:2007)
<b>UV resistance</b>	Undergoes slight yellowing under sunlight, hardly noticeable in indoor applications. No mechanical properties are affected. It is not evident for most colours.

<b>Use temperature</b>	Stable up to 80°C	
<b>Adhesión strength</b>	Surface Concrete (EP 100 primer)	Adhesión (m.Pa) >5

<b>Chemical resistance</b>	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 temperatura, 5=ok, 0=not recommended)

<b>Chemical</b>	<b>Result</b>
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



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Ammonia 3%	5
Diesel	5
Methoxypropyl acetate	4
Acetic acid 10%	5
Bleach	5
Sodium hydroxide	5
40g/L	
Acetone	3
Skydrol	5

### 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/mm<sup>2</sup>).

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 homogenize thoroughly component A and B using a low-speed stirrer. The mixture turns to a homogenous clear liquid. Mix the quartz filler afterwards if desired in the required ratio according to the version used. 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.

### CURING TIME

Application 1 kg/m<sup>2</sup>.

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.

### 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 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 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

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.**