EP NIVEL

Self-levelling epoxy coating

DESCRIPTION

Self-leveling 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 kind 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.

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CERTIFICATIONS

- **CE** Marking

CE

KRYPTON CHEMICAL SL
Martí i Franquès. Pol. Ind. Les Tàpies
E-43890 l'Hospitalet de l'Infant (Tarragona)

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EN 13813 SR-B4,0-AR0,5-IR14,7

Recubrimiento/revestimiento a base de resina sintética
para uso en construcciones de acuerdo con su ficha técnica

Reacción al fuego	B_{fl}
Emisión de sustancias corrosivas	SR
Permeabilidad al agua	NPD
Resistencia al desgaste (BCA)	AR 0,5
Resistencia a tracción	B 4,0
Resistencia al impacto	IR 14,7
Aislamiento acústico	NPD
Absorción acústica	NPD
Resistencia térmica	NPD
Resistencia química	NPD

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
Chemical description	Epoxi resin	Polyamine mixture
Physical state	Líquid	Líquid
Packaging	Metal container 20.9 kg	Metal container 4.1 kg
Non- volatile content (%) approximate	>95%	98%
Flash point	>120ºC	>100ºC
Colour	Pigmented	Colourless

Density

Temp (ºC)	Density (g/cm3)	Temp (ºC)	Density (g/cm3)
25	1,68	25	1,05

Viscosity

Brookfield approximate

Temp ºC	Viscosity (mPa.s)	Temp (ºC)	Viscosity (mPa.s)
25	3800	35	83
		25	150
		15	320
		5	800

VOC	<10g/L, <2%	20 g/L, <2%
Mixing ratio	A=100, B=19 by weight	
Mixture properties	1,6 g/cm3 at 23ºC 1700 mPa.s at 23ºC	

Pot life

Temp (ºC)	Pot life (100 g, min)
6	>70
25	40
35	25

Storage	Keep between 10º and 30ºC. 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) (ISO 868)	80D
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 80ºC

Adhesión strength

Surface	Adhesión (m.Pa)
Concrete (EP 100 primer)	>5

Chemical resistance

Permanent contact (3 days, 80ºC)

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 40g/L	0
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)

Chemical	Result
Water	5
Ethyl alcohol	5
Engine oil	5
Vinegar	5
Hydrogen peroxide	5

KRYPTON CHEMICAL SL
C/ Martí i Franquès, 12 - Pol. Ind. les Tàpies
43890 - l'Hospitalet de l'Infant - Spain
Tel: +34 977 822 245 - Fax: +34 977 823 977
www.kryptonchemical.com – rayston@kryptonchemical.com

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 40g/L	5
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/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 3ºC above dew point at least. Air temperature should be above 5ºC and relative humidity less than 80%.
Maximum application temperature is 40ºC.
Best conditions are 10ºC-30ºC. These conditions should be maintained along all the curing time. Application should be done with plenty of air ventilation.

MIXING

Stir and homogeneize 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 os squeegee. Combinatins with filler require application by metal spreader. Pass a spike roller while still liquid.

CURING TIME

Application 1 kg/m2.

Conditions	Touch dry (h)
35ºC, 25%hr	2
35ºC, 50% hr	8
23ºC, 5% hr	9
7ºC, 60%hr	>20
-15ºC,	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 mixtrure 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 containes 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.