



Self-leveling epoxy coating

DESCRIPTION AND APPLICATIONS

Self-leveling pigmented epoxy coating for surface protection. Allows to obtain a self-leveling, high ict resistant floor 2-5 mm thick in one coat. Suitable for concrete floors exposed to intense use in all kind of indoor areas..

BENEFITS

Smooth, glossy finish and easy to clean. Best suited for:

- Industrial flooring.
- Homes and residences, corridors, offices, restaurants
- Commercial areas/trade shows
- Parking decks.
- Warehouses.

CERTIFICATIONS

CE Marking (2015): EN 13813 SR-B2.0-AR0,5-IR14,7 **CE**

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 10,7 kg	Metal container 4,3 kg																
Non-volatile content (%)	>95%	98%																
Flash point	>120°C	>100°C																
Colour	Pigmented	Clear yellow																
Density	<table border="1"> <thead> <tr> <th>Temp (°C)</th> <th>Density (g/cm3)</th> </tr> </thead> <tbody> <tr> <td>23</td> <td>1.53</td> </tr> </tbody> </table>	Temp (°C)	Density (g/cm3)	23	1.53	<table border="1"> <thead> <tr> <th>Temp (°C)</th> <th>Density (g/cm3)</th> </tr> </thead> <tbody> <tr> <td>23</td> <td>0.99</td> </tr> </tbody> </table>	Temp (°C)	Density (g/cm3)	23	0.99								
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VOC	<10 g/L, <2%	<20 g/L, <2%																
A/B mixing ratio	A=100, B=40 by weight A=89, B=62 by volume																	
Mixture properties	Density: 1,3 g/cm3 at 23°C Viscosity: 1600 .s at 23°C Colour: pigmented(colourless under request)																	
Pot life approximate	<table border="1"> <thead> <tr> <th>Temperature (°C)</th> <th>Pot life(100g,min)</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>40</td> </tr> <tr> <td>25</td> <td>30</td> </tr> </tbody> </table>	Temperature (°C)	Pot life(100g,min)	6	40	25	30											
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Storage	Keep between 10°C and 30°C, in a cool and ventilated place																	
Use before	12 months after manufacturing date.																	

INFORMATION ON THE FINAL PRODUCT

Final state	Flexible, homogeneous solid.						
Colour	Pigmented						
Hardness (shore)	65D						
Mechanical properties	Maximum elongation: 10% Tensile strength: 17						
Adhesion strength	<table border="1"> <thead> <tr> <th>Surface</th> <th>Adhesion ()</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>3.7</td> </tr> <tr> <td>Galvanized steel sheet</td> <td>2,8 (unprimed) <3,5 (primer PU)</td> </tr> </tbody> </table>	Surface	Adhesion ()	Concrete	3.7	Galvanized steel sheet	2,8 (unprimed) <3,5 (primer PU)
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Chemical resistance

Surface contact (24 h, room temperature, 5=ok, 0=not recommended)

Chemical	Result
Water	5
Ethy alcohol	4
Engine oil	5
Vinegar	5
Hydrogen peroxide	4
Sulphuric Acid (30%)	2
Sulphuric Acid (30%)	1
Sulphuric Acid (30%)	1
Isopropyl alcohol	4
Xylene	3
Ammonia (3%)	5
Diesel	5
Methoxypropyl acetate	3
Acetic acid (10%)	0
Bleach	5
Sodium hydroxide (40g/L)	5
Acetone	3
Skydrol	5
Tetrahydrofuran	4

SUPPORT REQUIREMENTS

In order to achieve a good degree of penetration and bonding, support must be:

1. Flat and levelled(Product is self-levelling)
2. Coct 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 homogenize thoroughly component A and B using a low-speed stirrer. The mixture turns to a homogenous liquid. Do not mix more material than the amount usable within the pot life window.

APPLICATION

Apply by toothed spreader (5 mm gap) at 3 kg/m2 for a final 2-mm thickness

CURING TIME

3 kg/m2 applications

Conditions	Dry to touch (h)
23°C, 50% rh	4
7°C, 60% rh	30

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

Question	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



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Self-leveling epoxy coating

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.