

## Water-based 2-component epoxy coating

### DESCRIPTION

Two-component epoxy coating for concrete and general surface protection. This water-based product is a self-levelling coating, easy to apply in slightly moist surfaces without fillers. Impervious to liquid water but permeable to vapour, it allows an adequate substrate transpiration, preventing water accumulations and blistering. It is delivered as a pre-dosed kit, pigmented and ready to mix and use.

### APPLICATION

Self-levelling, protective coating for general concrete floorings in all indoor areas, such as:

- Industrial floorings
- Poorly ventilated areas
- Parking decks
- Warehouses

### TECHNICAL DATA

#### INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
<b>Chemical description</b>	Water-based pigmented polyamine hardener	Modified epoxy resin
<b>Physical state</b>	Liquid	Liquid
<b>Packaging</b> (A+B pre-dosed kit)	Plastic container 22.3 kg	Metal container 2,7kg
<b>Non-volatile content (%)</b>	80%	100%
<b>Flash point</b>	>120°C	>120°C
<b>Colour</b>	Pigmented	Colourless

#### Density

Temp (°C)	Density (g/cm <sup>3</sup> )	Temp (°C)	Density (g/cm <sup>3</sup> )
20	1.10	25	1,14

#### Viscosity approximate Brookfiel

Temp (°C)	Viscosity (m.Pas)	Temp (°C)	Viscosity (m.Pas)
30	1000-2500	35	60
		25	170
		15	375
		5	710

<b>VOC</b> (VOC class as per 2004/42 EC)	<25g/L, <0,5%	<2 g/L, 0,5%
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<b>Mixing ratio A/B</b>	A= 100; B=12 by weight	
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<b>Non-volatile content (mixture, %)</b>	82%, by weight.	
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<b>Pot life</b> Approximate	60 minutes (20°C)	
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<b>Storage</b>	Keep at temperatures between 10°C and 30°C. Frost sensitive. Component B 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.	
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#### INFORMATION ON THE FINAL PRODUCT

<b>Final state</b>	Rigid, uniform film
<b>Colour</b>	Pigmented. Available colours: RAL 1001, 3009, 5015, 6021, 7001,7011, 9003, 9004, 6002, 8001. Other colours available under request.
<b>Hardness Shore</b>	65D
<b>Uv resistance</b>	This product can change colour slightly under sunlight, with no impairment of its mechanical properties.

### Adhesion

Surface	Adhesion (m.Pa)
Concrete (with humidity primer)	>4.9
Concrete (with primer EP100)	>5
Concrete (no primer)	2.6

**Use temperature** Stable up to 80° C

### SUPPORT REQUIREMENTS

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

1. Flat and leveled (product is self-levelling)
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

### AMBIENTAL CONDITIONS

Application must be done at support temperatures 3°C above dew point. Air temperature must be above 15°C and relative humidity below 80%. Application temperature must be less than 40°C.

These temperatures must be constant throughout drying process. Application should be done with plenty of air/ventilation.

### SUPPORT PREPARATION

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

### MIXING PROCEDURES

Stir and homogenize thoroughly component A and B using a low-speed stirrer. The mixture turns to a homogenous and fluid milky solution. Water (up to 10%) may be added if deemed necessary for ease of application. Do not mix more material than the amount usable within the pot life window.

### APPLICATION AND RECOMMENDED AMOUNTS

Use a toothed spreader (5 mm gap) for a final coat thickness of 2 mm. Recommended consumption is 3 to 4 kg/m<sup>2</sup>.

### CURING TIME

Applications of 4 kg/m<sup>2</sup>.

Conditions	Touch dry (h)
20°C, 70%rh	10
20°C, 50% rh	6
20°C, 20% rh	5
35°C, 20%rh	2
35°C, 40%rh	2
7°C, 50% rh	20
7°C, 50% rh	50

Transit allowed: 24-48 hours, unless cold conditions (see table above)  
Final cure: 7 days

### REAPPLICATION

Usually only one coat is needed

### RETURN TO SERVICE

The applied coating is resistant to light traffic in the first 24-48 hours, depending on ambient conditions. Maximum hardness is achieved after 7 days.

### TOOL CLEANING

Cleaning of tools contaminated with both components can be done with water, before hardening.

### SAFETY

Epoxy components of component B are potentially sensitizing. Component A is irritant. Always follow instructions provided in the Material Safety Data Sheet. As



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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 Technical 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 Technical Data Sheet supersedes previous versions.**