

# EP Aquacoat

## WATER-BASED EPOXY COATING FOR FLOORING APPLICATIONS

### DESCRIPTION

Two-component epoxy coating for flooring protection. This water-based pigmented product is suitable for concrete floorings. Impervious to liquid water but permeable to vapour, it allows an adequate substrate transpiration, preventing water accumulations and blisterings. It is delivered as a pre-dosed kit, pigmented and ready to mix and use.

### APPLICATIONS

Pigmented coating, easy to apply. It can be used even in slightly moist surfaces or where some residual moisture remains.

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

### Technical data

### PRODUCT INFORMATION

	Component A	Component B								
<b>Chemical description</b>	Water-based polyamine hardener	Modified epoxy resin								
<b>Physical state</b>	Liquid	Liquid								
<b>Packaging</b>	Plastic container 21,4 kg 4,3 kg	Metal container 3,6 kg 0,7 kg								
<b>Non volatile content (%)</b> Approximate	25-50%	100%								
<b>Flash point</b>	>120°C	>120°C								
<b>Colour</b>	Pigmented	Colourless, slightly yellow								
<b>Density</b>	<table border="1"> <thead> <tr> <th>Temperature (°C)</th> <th>Density (g/cm3)</th> </tr> </thead> <tbody> <tr> <td>23°C</td> <td>1.30-1,45</td> </tr> </tbody> </table>	Temperature (°C)	Density (g/cm3)	23°C	1.30-1,45	<table border="1"> <thead> <tr> <th>Temperature (°C)</th> <th>Density (g/cm3)</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>1,14</td> </tr> </tbody> </table>	Temperature (°C)	Density (g/cm3)	25	1,14
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**Viscosity**  
Approximate,  
Brookfield

Temperature (°C)	Viscosity (mPa.s)	Temperature (°C)	Viscosity (mPa.s)
30	1000-2000	35	60
20	1100-2500	25	170
10	3000-6000	15	375
		5	710

**VOC Content**

<25g/L, <0,5%

<2 g/L, 0.5%

**Mixing ratio A/B**

A=100, B=17 by weight  
A=100, B=21 by volume

**Mixture properties**

1,30 g/cm<sup>3</sup> at 23°C  
800-1000 mPa.s a 23°C  
Colour: pigmented

**Pot life**  
Approximate

Temperature (°C)	Pot life (100 g, minutes)
5	200
20	150
35	100

**Storage**

Keep at temperatures between 10°C and 30°C. Frost sensitive. Use before 12 months after manufacturing date.

## FINAL PRODUCT PROPERTIES

**Final state**

Rigid, uniform film

**Colour**

Pigmented

**Hardness**  
Shore (ISO 868)

65D

**Film density**

1,4 g/cm<sup>3</sup>

**UV resistance**

This product can change colour slightly under sunlight, with no impairment of its mechanical properties.

**Adhesion**

Surface	Adhesion (MPa)
Concrete	>50

**Use temperature**

Stable up to 80° C

## APPLICATION GUIDELINES

**Recommended**

Option 1: Paint.



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**combinations**

Priming: Primer H, 150gr/m<sup>2</sup>  
 EP Aquacoat. 2 coats at 250-300gr/m<sup>2</sup>

Option 2: Antislip topcoat.

Priming: Primer H at 150g/m<sup>2</sup>  
 EP Aquacoat. 1 coat, at 150 g/m<sup>2</sup>  
 Quartz sand 0.1-0.3 mm, spreaded at 1 kg./m<sup>2</sup>.  
 EP Aquacoat. 2 coats at 250-300 g/m<sup>2</sup> (combined amount)

**Support requirements**

In order to achieve a good 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.

**Ambiental conditions**

Application must be done at support temperatures 3°C above dew point. Air temperature must be above 5°C and relative humidity below 80%. Application temperature must be less than 40°C. Optimal temperature range is 10°C- 30°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 homogeneize 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 brush, roller or airless spraying equipment. Usual consumption is 150 g/m<sup>2</sup> for each coat.

**Curing time**  
 Approximate

Applications 150 g/m<sup>2</sup> thick.

<i>Conditions</i>	<i>Touch dry (h)</i>
35°C, 25%rh	2
35°C, 10% rh	2
20°C, 10% rh	10
20°C, 40%rh	15
20°C, 90%rh	20
5°C, 50% rh	48
5°C, 20% rh	30
5°C, 80% rh	60

**Reapplication**

A second application may be done when the first one is dry to touch, and always within the first 24 hours.

**Return to service**

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

**Tool cleaning**

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



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# TECHNICAL DATA SHEET

## Safety

Epoxy components of component B are potentially sensitizing. Component A is irritant. Always follow instructions 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

This is a developmental product that is supplied for research and development purposes only. The information contained herein is merely preliminary because testing as to properties is not final. Further information including data that could change or add hazards associated with use, may be developed. Such information may be needed to evaluate and/or use this product properly. The user agrees that: use is undertaken at the user's sole risk, that the material is furnished "as is, with all faults," without any warranty or guarantee; and that Krypton Chemical shall not be liable for any damages, of whatever nature, arising out of the user's receipt and/or use of the material. Commercialization and continued supply are not assured. The user agrees that Krypton Chemical reserves the right to discontinue supply at any time. This data sheet supersedes all previous versions.

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