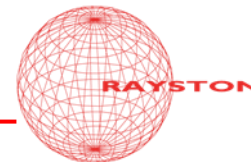


EP AQUACOAT VARNISH



Clear water-based epoxy resin for flooring

DESCRIPTION

Dust-free, colourless, protective epoxy coating for flooring and many concrete walls for all indoor application. Waterproof but vapour permeable. This helps to prevent water deposits and blistering due to water in the support. It is delivered as a pre-dosed kit of two separate components.

APPLICATIONS

Easy to apply clear varnish that can be also used in slightly moist surfaces or in floors retaining some residual moisture.

- Industrial flooring
- Poorly-ventilated places
- Parking decks
- Warehouses
- Walls

CERTIFICATIONS



Classification of reaction to fire according to standard EN 13501-a:2007 (Aitex. Cert. No 2016AN2375)

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
Chemical description	Water-based polyamine hardener	Modified epoxy resin
Physical state	Liquid	Liquid
Packaging	Plastic container	Metal container
(A+B pre-dosed kit)	12 kg 6 kg	4 kg 2 kg
Non-volatile content (%)	26%	100%
Flash point	>120°C	>120°C
Colour	Light yellow	Light yellow

Density

Temp (°C)	Density (g/cm ³)	Temp (°C)	Density (g/cm ³)
23	1,03	25	1,14

Viscosity approximate Brookfield

Temp (°C)	Viscosity (m.Pas)	Temp (°C)	Viscosity (m.Pas)
35	1800	35	60
25	2400	25	170
15	4200	15	375
5	11000	5	710

VOC

(VOC class as per 2004/42 EC) 7 g/L, 0,7% 7 g/L, 0,7%

Mixing ratio A/B

A=100, B=33 by weight
A=100, B=30 by volume

Mixture properties

Density :1,02 g/cm³ at 20°C
Viscosity: 4700 mPa.s at 20°C
Colour: milky white
Non-volatile content: 44%

Pot life

Approximate	Temperature (°C)	Pot Life (100 g/min)
	5	120

	20	90
	35	60
Storage	Keep at temperatures between 10° and 30°C. Frost-sensitive product. It is recommended to store this product indoor and away from moisture. Note: 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.	

INFORMATION ON THE FINAL PRODUCT

Final state	Solid membrane
Colour	Colourless to slightly yellow
Hardness Shore (ISO 868)	66D
Mechanical properties	Maximum elongation: 4% Tensile strength: 27 MPa
Solid density	1,2 g/cm ³
UV resistance	This product can change colour slightly under sunlight, with no impairment of its mechanical properties.
Chemical resistance	Permanent contact (3 days, 80°C, the lower weight gain, the better)

Chemical	% weight gain
Water	5
Methoxypropyl acetate	40
Isopropyl alcohol	15
Xylene	25
Diesel	5
Bleach	10
Acetic Acid (10%)	40

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

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

Adhesion strength	Surface: concrete Adhesion (m.Pa): 4.0
Use temperature	Stable up to 80° C
Slip resistance	With quartz sand spreaded onto (0,4-0,9 mm) at 1 kg/m ³ : class 3 as per UNE EN 12633-2003
Fire classification	Bfl s1
EN13501-1:2007	

RECOMMENDED COMBINATIONS

- Option 1: Anti-dust coating.
EP Aquacoat Varnish. 2-3 coats, at 300gr/m² each.
- Option 2: Water-based multilayer topcoats
EP Aquacoat Varnish. 2 coats at 450-600gr/m² each.

SUPPORT REQUIREMENTS



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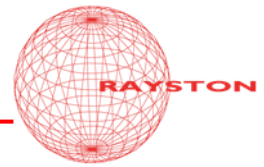
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In order to achieve a good penetration and bonding, support must be:

1. Flat and leveled (product is self-leveling)
2. Compact and cohesive (pull off test must show a minimum resistance of 1,4 N/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.

ENVIRONMENTAL 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

Stir and homogenize thoroughly component A and B using a low-speed stirrer. The mixture turns to a homogenous 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

Apply by brush, roller or airless spraying equipment from 150 g/m².

CURING TIME

250 microns application.

Conditions	Dry to touch (h)
35°C, 25% rh	4
35°C, 60% rh	5
20°C, 10% rh	24
20°C, 40% rh	24
20°C, 90% rh	24 (whitish)
3°C, 60% rh	>30 (whitish)

REAPPLICATION

A second application may be done when the first one is dry to touch, and always within the first 24 hours. Caution: contact with water when not fully cured may lead to white stains.

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 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 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.