# **RAYSTON EPOXY PLUS 2**

# Epoxy primer 100% solids



Epoxy resins are excellent adhesive material, very useful as primers for flooring applications and roofing. Rayston Epoxy Plus 2 is a high-solids, low viscosity epoxy system, consisting of 2 pre-dosed components. Depending on the substrate porosity, it can be diluted with Rayston solvent, to improve liquid penetration and adhesion performance.

Rayston Epoxy Plus 2 is a useful product for concrete sealing prior to treatment with waterproofing or seamless resin flooring products. It can be also used for general surface leveling.

### **CERTIFICATIONS**

CE Marking. EN 13813:2002. DoP 22-748



Fire resistance	B <sub>fl</sub>	
Emission of corrosive substances	SR	
Water permeability	NPD	
Wear resistance (BCA)	AR 0,5	
Tensile strength	B 2,0	
Impact resistance	IR 14,7	
Acoustic insulation	NPD	
Acoustic absorption	NPD	
Thermal resistance	NPD	
Chemical resistance	NPD	

# TECHNICAL DATA

INFORMATION ON	THE PROD	UCT BEFOR	RE APPLICA	TION	
	Compo	nent A	Compo	Component B	
Chemical description	Epoxy	/ resin	Polyamin	e mixture	
Physical state	Liq	uid	Liq	uid	
Packaging	Metal c	ontainer	Metal container		
	20	kg	5 kg		
Non-volatile content	95	5%	98%		
Flash point	>12	:0°C	>100°C		
Colour	Colourle	ss, hazy	Slightly yellow		
Density	Tempera	Density	Tempera	Density	
	ture (°C)	(g/cm³)	ture (°C)	(g/cm <sup>3</sup> )	
	25	1,57	25	1,05	
Viscosity	Tempera	Viscosity	Tempera	Viscosity	
	ture (°C)	(mPa.s)	ture (°C)	(mPa.s)	
	25	3000	25	150	
VOC	<10 g/L, <2% 20 g/L, <2%			<2%	
A/B mixing ratio	A=100, B=25 by weight				
Mixture properties		Density: 1,49 g			
	Viscosity: 1200 mPa.s at 23°C				
Pot life	Temperature (°C)		Pot life (100, min)		
	6		>70		
	25		40		
	3		25		
Storage			0°C. Compone	,	
	,	•	otracted perio		
	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			
Hardness (shore)	80D			
Mechanical	Maximum elongation: 2,5%			
properties	Tensile strength: 17 MPa			
	(EN-ISO 527-3)			
	Tear: 29 N/m			
UV resistance	Undergoes slight yellowing under sunlight. No			
	mechanical properties are affected.			
Use temperature	Up to 80°C			
Chemical resistance	Permanent contact (3 days, 80°C)			

Chemical	% Weight gain
Water	0
Methoxypropyl	5
acetate	
Isopropyl alcohol	0
Skydrol	0
Xylene	3
Ammonia (3%)	0
Acetone	25
Diesel	0
Hydrogen peroxide	0
Sodium hydroxide	0
(40 g/L)	
Bleach	2
Sulphuric acid (10%)	0
Sulphuric acid (30%)	0
Sulphuric acid (50%)	0
Acetic acid (10%)	2

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

Chemical	Result
Water	5
Ethyl alcohol	5
Engine oil	5
Vinegar	5
Hydrogen peroxide	5
Sulphuric acid (10%)	5
Sulphuric acid (30%)	5
Sulphuric acid (50%)	4
Isopropyl alcohol	4
Xylene	5
Ammonia (3%)	5
Diesel	5
Methoxy propyl	4
acetate	
Acetic acid (10%)	5
Bleach	5
Sodium hydroxide	5
(40 g/L)	
Acetone	3
Skydrol	5

## **SUPPORT REQUIREMENTS**

To achieve a good penetration and bonding, support must be:

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



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

Latest update: 07/08/2024

Page: 1/2

# **RAYSTON EPOXY PLUS 2**

# Epoxy primer 100% solids



Support temperature should be between 15°C and 40°. At higher temperatures, specific precautionary measures must be taken. Please follow manufacturer advice.

## **SUPPORT PREPARATION**

Surfaces must be previously prepared by cleaning and removal of all dust and loose material. In case of concrete, sandblasting is recommended.

#### MIXING

Stir and homogenise thoroughly component A and B using a low-speed stirrer. The mixture turns to a homogenous clear liquid. Do not mix more material than the amount usable within the pot life window. Mixing with quartz sand is possible for other intended uses.

#### **APPLICATION**

As a primer: Apply 200 to 500 g/m² of undiluted product. Other quantities are possible when used with dilution. Use brush or roller.

On very absorbent substrates, a first coat may be diluted, followed by a second, undiluted coat. Do not apply on hot surfaces.

Use enough amount to ensure complete surface sealing. On big areas, it is recommended to spread some quartz sand to get a rough primer surface, improving the adhesion of the following polyurethane coat.

#### **CURING TIME**

Application tested: 500 g/m<sup>2</sup>

Dry to touch (h)	
1	
6	
7	
>20	
5°C Does not dry	

# REAPPLICATION

A second coat is possible as soon as the first one is dry to touch, and within the following 24 hours.

#### **TOOL CLEANING**

Use solvent Rayston for both components.

### **QUESTIONS AND ANSWERS**

Problem	Question	Causes	Solutions
Uneven distribution	Wetting problems	Surface contamination	Dilution with solvent Rayston may be useful
in-can fast reaction		Too much material mixed	If mixed in smaller volumes, or even spread on the surface after mixing, working time can be extended.
Need colours	It can be pigmented		Yes, but ask manufacturer advice to select the right pigment paste



#### SAFETY

Epoxy components are potentially sensitizing. Component B is corrosive. Always follow instruction provided in the Material Safety Data Sheet. As a 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 contains still have some material left, do not mix with other product before considering the risk of potentially dangerous reactions. Never mix in volumes larger than 5 litres 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" 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.



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

Latest update:

Page:

07/08/2024

2/2