

EP MULTILAYER VARNISH



100% solids, performance epoxy coating for flooring applications

DESCRIPTION

Clear, 2-component epoxy coating for concrete surface protection. Designed for general purpose uses in multilayer systems, from the primer coat to the topcoat layer.

APPLICATION

Multilayer protective coating for heavily used concrete floors, in all kind of indoor areas.

- Industrial flooring
- Poorly ventilated areas.
- Parking decks.
- Warehouses.
- Shops.

This material can be used as a primer and as a component of all the steps in a multilayer system. Also suitable as a self-leveling flooring resin. The different available option depends on the application choices, fillers and the pigmentation options. Also suitable for dry mortar preparations.

CERTIFICATIONS



• **Fire behaviour:** No 14/RC-15 (FCBA, France)

• **CE Marking**

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
Chemical description	Epoxi resin	Polyamine mixture
Physical state	Liquid	Liquid
Packaging	Metal container 10 kg 5 kg	Metal container 4 kg 2 kg
Non- volatile content (%) approximate	>95%	98%
Flash point	>120°C	>100°C
Colour	Colourless	Colourless
Density	Temp (°C) Density (g/cm3) 25 1.12	Temp (°C) Density (g/cm3) 25 1,05
Viscosity	Temp(°C) Viscosity (mPa.s) 35 100 25 170 15 260 5 900	Temp (°C) Viscosity (mPa.s) 35 83 25 150 15 320 5 800
VOC	<10g/L, <2%	20 g/L, <2%
Relation A/B	A=100, B=40 by weight A=100, B=43 by volume	
Mixture properties	1,10 g/cm3 at 23°C 1000 mPa.s at 23°C colourless	
Pot life	Temp (°C) Pot life (100 g, min) 6 >70 25 40	

	35	25
Storage	Keep between 10° and 30°C. Component A 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	Rigid, homogeneous material
Colour	Colourless
Hardness (Shore) (ISO 868)	80D
Fire behaviour	Bfl-s1
UV resistance	Undergoes slight yellowing under sunlight, hardly noticeable in indoor applications. No mechanical properties are affected.
Use temperature	Stable up to 80°C

SUPPORT REQUIREMENTS

In order to achieve a good degree of 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.

SUPPORT PREPARATION

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

RECOMMENDED ENVIRONMENTAL CONDITIONS

Support temperature must be 3°C above dew point at least. Air temperature should be above 5°C and relative humidity less than 80%. Maximum application temperature is 40°C. Best conditions are 10°C-30°C. These conditions should be maintained along all the curing time. Application should be done with plenty of air ventilation.

MIXING

Stir and homogenize thoroughly component A and B using a low-speed stirrer. The mixture turns to a homogenous clear liquid. Mix the quartz filler afterwards if desired. Do not mix more material than the usable amount within the pot life window.

APPLICATION

Pure resin requires roller or rubber spreader or squeegee. Combinations with filler require application by metal spreader.

CURING TIME

Application 1 kg/m2.

Conditions	Touch dry (h)
35°C, 25%hr	2
35°C, 50% hr	8
23°C, 5% hr	9
7°C, 60%hr	>20
-15°C,	No cure

REAPPLICATION

Normally possible after 24 hours.

RETURN TO SERVICE



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

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Light traffic allowed after 24-48 hours. Final hardness is achieved after 7 days (approximate). Caution: contact with water when not fully cured may lead to white stains.

QUESTIONS

Problem	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 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.

