

EP MULTILAYER

100% SOLIDS, PIGMENTED PERFORMANCE EPOXY COATING FOR FLOORING APPLICATIONS

DESCRIPTION

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

APPLICATIONS

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 depend on the application choices, fillers and the pigmentation options.

CERTIFICATIONS

- CE Marking

EN 13813 SR-B2,0-AR0,5-IR14,7



Technical data

PRODUCT INFORMATION

	Component A	Component B
Chemical description	Epoxy resin	Polyamine mixture
Physical state	Liquid	Liquid
Packaging	Metal container 12 kg	Metal container 3 kg



Krypton Chemical, SL

RAYSTON Products

Non-volatile content (%) Approximate	>95%	98%
Flash point	>120°C	>100°C
Colour	Pigmented	Colourless

Density	Temperature (°C)	Density (g/cm3)	Temperature (°C)	Density (g/cm3)
	25°C	1.4	25	1,05

Viscosity Approximate Brookfield	Temperature (°C)	Viscosity (mPa.s)	Temperature (°C)	Viscosity (mPa.s)
	25	1000	35	83
			25	150
			15	320
			5	800

VOC Content	<10g/L, <2%	20 g/L, <2%
--------------------	-------------	-------------

Relación A/B	A=100, B=25 by weight
---------------------	-----------------------

Mixture properties	1,10 g/cm3 at 23°C 1000 mPa.s at 23°C Pigmented
---------------------------	---

Pot life Approximate	Temperature (°C)	Pot life (100 g, minutes)
	6	>70
	25	40
	35	25

Storage	Keep between 10° and 30°C
----------------	---------------------------

Use before	12 months after manufacturing date
-------------------	------------------------------------

FINAL PRODUCT INFORMATION

Final state	Rigid, glossy, homogeneous material
Colour	Pigmented. Available colours RAL 1001, 3009, 5015, 6021, 7001,7011, 9003, 9004, 6002, 8001. Other colours under request.
Hardness Shore (ISO 868)	65D



Krypton Chemical, SL

RAYSTON Products

Chemical resistance Surface contact, 7 days (0=worst, 5=best)

<i>Chemical</i>	<i>Result</i>
Vinegar	5

UV resistance Undergoes slight yellowing under sunlight, hardly noticeable in indoor applications. No mechanical properties are affected. It is not evident for most colours.

Use temperature Stable up to 80°C

APPLICATION GUIDELINES

Recommended combinations As a multilayer system (2-mm thick)

1. First coat. By roller or rubber spreader, pure EP Multilayer.
2. Quartz sand spreading
3. Second coat: by metal spreader, EP Multilayer Varnish mixed with quartz sand.
4. Colour quartz chips, spreaded
5. Topcoat. Pure EP Multilayer, by roller or rubber spreader.

For more advice and specific data of the different application combinations, please refer to Krypton Chemical.

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.

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.

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 homogeneize 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 1 kg/m² applications.
Approximate

<i>Conditions</i>	<i>Touch dry (h)</i>
35°C, 25%rh	2
23°C, 50% rh	8
23°C, 5% rh	9
7°C, 60%rh	>20
-15°C	no cure



Krypton Chemical, SL

RAYSTON Products

Reapplication Normally possible after 24 hours

Return to service Light traffic allowed after 24-48 hours. Final hardness is achieved after 7 days (approximate)

Questions

Question	Cause	Solution
Reaction is too fast. Short pot life	Too much product mixed	If mixed in smaller volumes or the mixtrure 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 contains 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 informations 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.

Krypton Chemical SL

c. Martí i Franquès, 12
Pol. Ind. les Tàpies
43890-l'Hospitalet de l'Infant- Spain
Tel: +34 902 908 062
Fax: +34 977 823 977
rayston@kryptonchemical.com
www.raystonpu.com



Krypton Chemical, SL

RAYSTON Products