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.

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

Chemical description

Epoxy resin

Physical state

Packaging

Liquid

Metal container

10 kg 5 kg

Component B

(F

Polyamine mixture

Liquid

Metal container

4 kg 2 kg



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FT en EP Multilayer Varnish

Page 1 of 4

Rev-24/3/2014

| Non-volatile content (%) Approximate | >95% | >95% >120ªC | | 98% >100°C | |
|---|--|---|------------------------------|----------------------|--|
| Flash point | >120ª | | | | |
| Colour | Colourie | Colourless | | Colourless | |
| Density | Temperature (℃) | Density (g/cm3) | Temperature (ºC) | Density (g/cm3) | |
| | 25°Ć | 1.12 | 25 | 1,05 | |
| Viscosity Approximate | Temperature (⁰C) | Viscosity (mPa.s) | Temperature (°C) | Viscosity (mPa.s) | |
| Brookfield | 35 | 100 | 35 | 83 | |
| | 25 | 170 | 25 | 150 | |
| | 15 5 | 260 900 | 15 | 320 800 | |
| VOC Content | <10g/L, • | <10g/L, <2% | | 2% | |
| Relación A/B | A=100, B=40 by weight A=100, B=43 by volume | | | | |
| Mixture properties | | 1,10 g/cm3 at 23ºC 300 mPa.s at 23ºC Colourless | | | |
| Pot life Approximate | | Temperature (⁰C) | Pot life (100 g, minutes) | F | |
| | | 6 | >70 | T/ | |
| | | 25 | 40 | 1 1 | |
| | NNI- | 35 | 25 | - 1 | |
| Storage | Keep between 10° and 30°C | | | | |
| Use before | 12 months after man | 12 months after manufacturing date | | | |

FINAL PRODUCT INFORMATION

| Final state | inal state Rigid, homogeneous material | |
|-----------------------------|--|--|
| Colour | Colourless | |
| Hardness Shore (ISO 868) | 65D | |
| UV resistance | Undergoes slight yellowing under sunlight, hardly noticeable in indoor applications. No mechanical properties are affected. | |



Krypton Chemical, SL

RAYSTON Products

FT en EP Multilayer Varnish

| | AX/ | XX |
|--------------------------|---|-------------------------------------|
| | APPLICATION GUIDEL | INES |
| Recommended combinations | As a multilayer system (2-mm thick) | $\langle X \rangle \rangle$ |
| | 1. First coat. By roller or rubber spread | ler, pure EP Multilayer Varnish |
| | Quartz sand spreading Second coat: by metal spreader, EF | Multilayer Varnish mixed with |
| | Colour quartz chips, spreaded Topcoat. EP Multilayer Varnish, by r | oller or rubber spreader. |
| | For more advice and specific data of th refer to Krypton Chemical. | ne different application combina |
| Support requirements | $/ \times \times \times$ | $A \land A$ |
| Support requirements | In order to achieve a good degree of p 1.Flat and leveled (Product is self-level | |
| | 2. Compact and cohesive (pull off test N/mm2). | must show a minimum resista |
| | 3. Even and regular surface | $X \land A$ |
| | Free from cracks and fissures. If any Clean and dry, free of dust, loose page | |
| Recommended | $/ \times \vee \vee \wedge$ | VZX |
| environmental conditions | Support temperature must be 3°C above be above 5°C and relative humidity les | s than 80%. |
| | Maximum application temeprature is 4 Best conditions are 10°C-30°C. These the curing time. Application should be | conditions should be maintain |
| Support preparation | Concrete surfaces must be previously suitable means. Remove all dust and l | |
| Mixing | | |
| | Stir and homogeneize thoroughly com The mixture turns to a homogenous cle desired. Do not mix more material than window. | ear liquid. Mix the quartz filler a |
| Application | | ander an anuanna Cambinat |
| Application | Pure resin requires roller or rubber spr require application by metal spreader. | eader os squeegee. Combina |
| Curing time | 1 kg/m2 applications. | |
| Approximate | Conditions | Touch dry (h) |
| | 35⁰C, 25%rh 23⁰C, 50% rh | 2 8 |
| | 23ºC, 5% rh | 9 |
| | 7ºC, 60ºrh -15ºC | >20 no cure |
| Reapplication | Normally possible after 24 hours | |
| | | |
| Return to service | Light traffic allowed after 24-48 hours. (approximate) | Final hardness is achieved af |
| | | |



| 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. Alway 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 us only for the uses and in the way here described. This product is to be used only 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 ful Treat empty containers as hazardous waste, and transfer them to an authorized waste manager. If the containes still have some material left, do not mix with oth product before considering the risk of potential dangerous reactions. Never mix volumes larger than 5 litres in order to prevent a dangerous heat evolution | | | | |
| Other informations | as verbal or provided | through testing, a | SHEET, as well as our advice, both w are based on our experience, and the r the installer, who must consider the | | |
| | We recommend to study deeply all information provided before proceeding to use or application of any of our products, and strongly advise to conduct tests site" in order to determine their convenience for a specific project. | | | | |
| | Our recommendations do not exempt of the obligation of installers to deeply s the right application method for these systems before use, as well as to conduc many preliminary tests as possible should any doubt arise. The application, and processing of our products are beyond our control, and therefore under exclusive responsibility of the installer. In consequence, the installer will be the responsible of any damage derived from the partial or total in-observation of indications, and in general, of the inappropriate use or application of the materials. | | | | |
| | This data sheet supersedes previous versions. | | | | |
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| | Krypton Chemic | al SL | | | |
| | c. Martí i Franquès, 1 | 0 | | | |

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