

KRYPTANATE 100 LV

RAYSTON
products



Hand-applied polyaspartic coating

DESCRIPTION

Kryptanate 100 LV is 100% solids, low viscosity two-component, polyaspartic system that, opposite to usual polyurea systems, has a gel time and a curing speed slow enough to allow manual application, while retaining a curing time still shorter than usual two-component polyurethane systems. Kryptanate 100 LV is delivered colourless or pigmented. Main applications include flooring and multilayer combinations.

ADVANTAGES

- Fast cure even at low temperatures.
- Good adhesion strength.
- Hard and resistant, in one-coat application.
- Excellent gloss retention. Aliphatic polyisocyanate base. Does not yellow upon exposure to sunlight.
- Good weathering resistance.
- Thick layers possible in a single application.
- Improves corrosion resistance. Several studies show that these coatings exhibit a corrosion-inhibition potential in metal surfaces. Suitable for operating freezing rooms.
- Ideal for new construction and refurbishment. Easier and time- saving solution in contrast with classical epoxy and polyurethane systems.

CERTIFICATIONS

- Reaction to fire classification Bfl-s1, No. 22AN6302. AITEX. According to standard EN 13501-1:2018.

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
Chemical description	Polyamine	Aromatic isocyanate prepolymer
Physical state	Liquid	Liquid
Packaging	Metal container	Metal container
	Clear:	Clear:
	8.90 kg	5.10 kg
	3.20 kg	1.80 kg
	Pigmented:	Pigmented:
	10.84 kg	4.16 kg
Non-volatile content	98%	100%
Flash point	100°C	>100°C
Colour	Clear yellow or pigmented	Colourless
Density	Colourless: 1.06 g/cm ³ (25°C) Pigmented: 1.50 g/cm ³ (25°C)	1.15 g/cm ³ (25°C)
Viscosity	Colourless: 200 mPa.s (25°C) Pigmented: 500 mPa.s (25°C)	425 mPa.s (25°C)
A/B mixing ratio	Colourless A=100, B=56 by weight A=100, B=52 by volume Pigmented A=100, B=38 by weight A=100, B=33 by volume	
Initial mixture properties	Density: 1,08 g/cm ³ (clear) 1.50 g/cm ³ (pigmented) Viscosity: 340 mPa.s (clear) 1300 mPa.s (pigmented)	

Working time	20-25 min (25°C, 50% rh) High temperature and humidity reduce pot life.
Storage	Keep at 10°C-30°C, away from moisture.
Use before	12 months after manufacture date.

INFORMATION ON THE FINAL PRODUCT

Final state	Polyurethane/polyaspartic solid film																																
Colour	Colourless or pigmented																																
Hardness (Shore)	67D (clear) / 62D (pigmented)																																
Mechanical properties	Clear: Maximum elongation: 10% (EN-ISO 527-3) Tensile strength: 35 MPa (EN-ISO 527-3) Pigmented: Maximum elongation: 3% (EN ISO 527-3) Tensile strength: 7 MPa (EN-ISO 527-3)																																
UV resistance	Colour stable under sunlight																																
Fire behaviour	Class Bfl S1 EN 13501-1																																
Chemical resistance	Surface contact, 24 hours, 25°C (0=worst, 5=best)																																
	<table><thead><tr><th>Chemical</th><th>Result</th></tr></thead><tbody><tr><td>Water</td><td>5</td></tr><tr><td>Xylene</td><td>2</td></tr><tr><td>Ethyl acetate</td><td>1</td></tr><tr><td>Acetic acid (concentrated)</td><td>0</td></tr><tr><td>Bleach</td><td>4</td></tr><tr><td>Hydrochloric acid (comercial)</td><td>4</td></tr><tr><td>Ammonia</td><td>5</td></tr><tr><td>Hydrogen peroxide</td><td>5</td></tr><tr><td>Methyl alcohol</td><td>0</td></tr><tr><td>Acetone</td><td>0</td></tr><tr><td>Sodium hydroxide (40%)</td><td>5</td></tr><tr><td>Diesel</td><td>5</td></tr><tr><td>Sulphuric acid (40%)</td><td>5</td></tr><tr><td>Sulphuric acid (96%)</td><td>0</td></tr><tr><td>Skydrol</td><td>5</td></tr></tbody></table>	Chemical	Result	Water	5	Xylene	2	Ethyl acetate	1	Acetic acid (concentrated)	0	Bleach	4	Hydrochloric acid (comercial)	4	Ammonia	5	Hydrogen peroxide	5	Methyl alcohol	0	Acetone	0	Sodium hydroxide (40%)	5	Diesel	5	Sulphuric acid (40%)	5	Sulphuric acid (96%)	0	Skydrol	5
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SUPPORT REQUIREMENTS

Support must fulfil the following requirements:

- Cohesive strength: minimum 1,5 MPa
- Compression strength: minimum 25 MPa

Free from any vapour or water pressure. Support must also be clean, dry, and free from poorly adhesive areas. Moisture content must be less than 4%.

Ideally, the support temperature should be between 10°C and 25°C, for applications at low temperatures, consult technical department. If underlying moisture is suspected, use a suitable primer. Please contact Krypton Chemical for further information about primer types.

New concrete slabs must be allowed to dry for three weeks before starting job.

MOISTURE AND HUMIDITY

Recommended air temperature: 10°C to 30°C.

Recommended humidity: 40% to 80%.

SUPPORT PREPARATION

Concrete:

Abrade, scarify, or treat the surface with a diamond grinding machine or similar, then applying enough quantity of Rayston Epoxy Primer to seal the substrate and ensure enough penetration into substrate. On certain substrates, it is preferred to apply one layer of Primer 100 with 10 – 20% solvent to obtain a better penetration, while applying afterwards a second hand without solvents to seal substrate properly. Allow 12-24 hours drying time of the primer before resuming job.



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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MIXING

Open component A container. Stir using a low-speed stirrer preventing an excessive air bubbling, until dispersion of fillers. Pour component B in it and stir gently for 2 minutes. Transfer the mixture to a bigger container and check there is no unmixed product left or slumps of undispersed filler material. Note that humidity can reduce pot life.

APPLICATION

Apply by roller or spreader, when needed. Airless equipment is not recommended due to safety reasons. Reaction rate increases with the size of the mixtures; therefore, it is advised not to mix more amount of product than that can be easily applied in a 15-minute period. Otherwise, application could be difficult, or the final appearance could be affected. It can be applied at temperatures of up to -20°C, thus extending the curing time to approximately 8 hours.

RECOMMENDED QUANTITIES

Kryptanate 100 may be applied in 200 g/m² thick coats in 2 to 3 coats, depending on the chosen pigmentation.

CURING TIME

Curing time depends strongly on the local conditions. Curing speed will increase with temperature and humidity. The following table gives approximate values for 200 g/m² applications. Thicker coats will give longer curing times. Thinner coats will cure faster.

Conditions	Dry to touch (h)
25°C, 25% rh	1
10°C, 60% rh	2

RE-APPLICATION

Usually, desired thickness is achieved in a single coat.

RETURN TO SERVICE

One hour after touch-dry, light traffic is usually allowed.

TOOL CLEANING

Component A and B can be cleaned with solvent Rayston. Cured product cannot be dissolved unless special stripping products are used. Due to its fast-curing rate, A+B mixture stain must be cleaned as soon as possible.

CLEANING AND MAINTENANCE

A daily water scrubbing is allowed. Solvents may seriously damage the surface.

FAQ

Problem	Solution
Dilution?	Not usually needed. If desired, some solvent can be added, but keep in mind that this will result in a longer drying time, and colour could be affected. Solvents must be always polyurethane grade. They must be free from alcohols or water, or any substance that can affect the crosslinking reaction. Recommended solvents are xylene or methoxypropyl acetate (PMA).
Is spreading of quartz sand allowed?	Yes. The pot life gives enough time for the application of antislip additives (Quartz sand, bauxite, etc) between two coats.

Please refer to Krypton Chemical advice for further information on the application details.

SAFETY

Kryptanate 100 LV contains isocyanates. Always follow the instructions provided in the material safety data sheet and take the precautions described there. As a rule, suitable ventilation must be ensured, and any skin contact avoided. This product is intended to be used only for the uses and in the way here described. Sprayed application methods are not recommended due to health/safety reasons. 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 taking the same precautions as if they were full. Containers must be considered as hazardous waste, to be transferred to an authorized waste manager.

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.



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