COLODUR ECO MATT

Aliphatic water-based polyurethane resin

DESCRIPTION

Colodur Eco Matt is a waterborne high performance aliphatic polyurethane resin. It cures giving hard and flexible floor coatings, abrasion resistant. It provides a surface protection for heavily used floorings. This material does not discolour upon sunlight exposure, making it suitable for outdoor applications. Being almost solventless, it can be used in public areas with no need to close them.



APPLICATION

Suggested uses include:

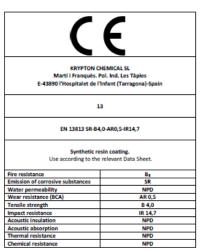
- Parking decks
- Industrial flooring.
- Tennis courts and recreational areas.
- General concrete flooring
- Sealing and surface protection of epoxy, polyurethane or cementitious self-leveling products.



CERTIFICATIONS

EN 13813 SR-B4,0-AR0,5-IR14,7. Applus Laboratory: Taber Abrasion test. N.08/32309984. Slip class: No. 10/1709-1861- 10101589-1262







TECHNICAL DATA

Vicesitu

Use before

INFORMATION ON THE PRODUCT BEFORE APPLICATION						
	Component A			Component B		
Chemical	Water-base	d polyol		Solventless aliphatic		
description	dispers	ion		polyisocyanate		
Physical	Liqui	Liquid		Liquid		
state						
Packaging	Plastic container			Metal container		
(A+B pre-	12.6 kg			2.4 kg		
dosed kit)	3.36 kg			0.64 kg		
Non-volatile	33%			100%		
content (%)						
Flash point	>200 °C			>100°C		
Colour	Milky white			Colourless		
Density	Temperature	Density	Те	mperature	Density	
	(°C)	(g/cm³)		(°C)	(g/cm³)	
	25	1,03	-	25	1,15	

VISCOSITY	remperature	Viscosity		remperature	Viscosity
	(°C)	(mPa.s)		(°C)	(mPa.s)
	35	350		35	500
	25	850		25	1000
	15	1200		15	1500
	5	2500		5	3400
VOC			<10	g/L	
(VOC class as	1%				

(VOC class as	1%				
per 2004/42		A, i			
EC)					
Mixing ratio,	A=100	A=100, B=19 by weight			
A/B	A=100	A=100, B=17 by volume			
Mixture	Temperature	Density	Viscosity		
properties	(°C)	(g/cm³)	(mPa.s)		
	25	1.05	800		

Colour	Milky white 48%		
Non-volatile content			
Pot life		Conditions	Pot life (min)
approximate		(100g)	
		20°C, 40% rh	180
		9°C, 60% rh	300
Storage	Kee	ep between 10° y 30	0°C. Protect from fr

12 months after manufacture date

INI	FORMATION ON THE FINAL PRODUCT		
Final state	Solid polyurethane film		
Colour	Several colours available. Please contact Krypton		
	Chemical for further information.		
Hardness	55D		
(Shore)	55D		
Mechanical	Elongation at break: 35%		
properties			
Abrasion			
resistance	15 mg (500 cycles)		
Taber, CS-10,	28 mg (1000 cycles)		
1000 g			
UV resistance	Colour stable under sunlight		
Slip resistance	With quartz sand spreaded onto (0,4-0,9 mm) at 1 kg/m		
	class 3 as per UNE EN 12633-2003		
Gloss	<10% (60°, 150 microns)		



KRYPTON CHEMICAL SL

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Chemical	Surface contact, 24 hours, 25°C		
resistance	(5=ok, 0=not r	ecommended)	
	Chemical	Results	
	Water	5	
	Isopropyl alcohol	0	
	Xylene	0	
	Hydrochloric acid	5	
	(household d-type)		
	Bleach	5	
	Ammonia	1	
	Sodium hydroxide (50%)	5	
	Diesel	3	
	Engine oil	5	
	Concentrated acetic acid	0	
	Hydrogen peroxide	0	
	Methoxypropyl acetate	0	
	Acetone	0	
	Acetic acid (10%)	0	
	Skydrol	5	
	Coffee	4	
	Lemon juice	5	
	Coca cola	5	
	Beer	5	

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%, Recommended support temperature: 10°C to 25°C.

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. On porous substrates, it is recommended a prior sealing/primer coating. Direct application of Colodur ECO Matte on a porous substrate is not recommended because of the risk of excessive matting agent deposits on the surface.

ENVIRONMENTAL CONDITIONS

- Recommended air temperature: 10°C to 30°C
- Recommended humidity: less than 80%.

Recently cured or applied membrane cannot meet moisture or liquid water because it can form white spots.

SUPPORT PREPARATION

Concrete:

Abrade, scarify, or treat the surface with a diamond grinding machine or similar, and then applying enough quantity of a Rayston epoxy-type primer. Allow 12-24 hours drying time of the primer before resuming job.

MIXING

Open the component a container. 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. dilute the product with 15% water.

APPLICATION

Use a suitable paint roller.

RECOMMENDED QUANTITIES

Apply up to 150 g/m² for each coat. Thicker applications can lead to blistering and/or loss matting effect. Extend the material with a 6 mm Teflon microfiber roller approximately with beveled edges, distributing the material from one end of the pavement to the other in the direction of product spillage with the same roller with the cross direction, we will distribute the material covering approximately 1.3m without overlapping the previous roll strip back to 1.35m overlapping less than 5 cm. Then change to a dry roller and extend the overlap slowly, check that there are no excess areas of material. If we want to achieve a surface without overlaps, always keep the edge of the application "fresh".

CURING TIME

Curing time depends strongly on the local conditions. Curing speed will increase with temperature and decrease with humidity. Following data refer to 200 g/m² applications.

Conditions	Touch dry (h)
20°C, 50% hr	5
20°C, 15% hr	4
5°C, 50% hr	25
5°C, 20% hr	35
5°C, 80% hr	60
35°C, 40% hr	2
35°C. 10% hr	1

RECOATING

When two coats are applied, the second one can be applied after 24 the first one is dry to touch. Application afterwards requires sanding of the first coat.

RETURN TO SERVICE

Light pedestrian traffic is allowed after 24 hours.

TOOL CLEANING

Component A and B can be cleaned with water. Cured product cannot be dissolved unless special stripping products are used.

Question	Answer		
	Use water, up to 15% of addition, in the		
	A+B mixture, immediately after mixing. If		
¿It can be thinned?	thinning several cans, use the same		
	amount in each to prevent colour		
	variations.		

MAINTENANCE

A daily water scrubbing is allowed. Caution: some solvents may seriously damage the surface.

Component B 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.

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RAYSTON

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 Technical 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 Technical Data Sheet supersedes previous versions.



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