COLODUR ECO MATT

Aliphatic water-based polyurethane resin

DESCRIPTION

Colodur Eco Matt is a high-performance resin based on 2-component aliphatic polyurethane, water-based, which provides hard and flexible coatings at the same time, with high resistance to abrasion and chemical agents. It is an excellent surface protection for floors subject to intense wear action. This product does not yellow when exposed to sunlight, making it suitable for outdoor use. The absence of solvents allows this product to be used in areas with the presence of the public, without the need to evacuate them. It comes in a colourless version.

APPLICATION

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

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

INFORM	ATION ON THE	PRODUCT I	BEF	ORE APPL	ICATION
	Component A			Component B	
Chemical	Water-based polyol			Solventless aliphatic	
description	dispersion			polyisocyanate	
Physical	Liqu	iid		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-	33%	%		100%	
volatile					
content					
Flash point	>200 °C			>100°C	
Colour	Milky white			Colourless	
Density	Temperature	Density		Temperatu	re Density
	(°C)	(g/cm ³)		(°C)	(g/cm ³)
	25	1,03		25	1,15
Viscosity	Temperature	Viscosity		Temperatu	· ·
	(°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 p	per	1%			
2004/42 EC)				A, i	
Mixing ratio, A/B		A=100, B=19 by weight			
		A=100, B=17 by volume			
Mixture proper	ties	Temperature		Density	Viscosity
		(°C)		(g/cm ³)	(mPa.s)
		25		1.05	800
Colour		Mi	lky white		
Non-volatile content		48%			



Pot life approximate	Conditions (100g)	Pot life (min)	
	20°C, 40% rh	180	
	9°C, 60% rh	300	
Storage	Keep between 10° y 30	Keep between 10° y 30°C. Protect from frost.	
Use before	12 months after r	12 months after manufacture date	

	NFORMATION ON THE FINAL PR			
Final state	Solid polyurethane film			
Colour	Colourless			
Hardness	55D			
(Shore)				
Mechanical	Elongación máxima: 35%			
properties				
Abrasion	15 mg (Taber, CS-10, 1000 g, 500 cycles)			
resistance	28 mg (id, 1000 cycles)			
Chemical	Surface contact, 24 hours, 25°C (5=ok, 0=not			
resistance	recommend	recommended)		
	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		
UV resistance	Colour stable unde	r sunlight		
Slip resistance	Quartz sand spreaded onto (0,	4-0,9 mm) at 1 kg/m ³ :		
	Class 3 (UNE EN 12	Class 3 (UNE EN 12633-2003)		
	Class 1 without qua	Class 1 without quartz sand.		
Gloss	<10% (60°, 150 r	<10% (60°, 150 microns)		
Water vapour	Class I 1,1	Sd		
permeability	(UNE EN 1504-2	2:2005)		

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.



KRYPTON CHEMICAL SL

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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

Mix before use component A. 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/m^2 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

RETURN TO SERVICE

Light pedestrian traffic is allowed after 24 hours.

RECOATING

With temperatures between 15° and 30°C, a new coat can be applied between 15 and 24 hours after the application of the first one. After this time, the first coat must be sanded to be able to apply a second coat.

At temperatures above 30°C, it's recommended that the application of a second coat is always done with sanding of the first coat.



TOOL CLEANING

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

FAQs

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.

SAFETY

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.

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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