# **COLODUR ECO SATIN**

# Aliphatic water-based polyurethane resin

# DESCRIPTION

Colodur Eco Satin 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

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

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# **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

TECHNICAL D					
INFORMA	TION ON THE		EFORE APPLIC	ATION	
	Component A		Compon	Component B	
Chemical	Water-based polyol		Solventless	Solventless aliphatic	
description	dispersion		polyisocy	polyisocyanate	
Physical	Liquid		Liqui	Liquid	
state					
Packaging	Plastic container		Metal cor	Metal container	
(A+B pre-	12.6 kg		2.4 k	2.4 kg	
dosed kit)	3.36 kg		0.65	0.65 kg	
Non-volatile	33%	33%		100%	
content					
Flash point	>200	>200 °C		>100°C	
Colour	Milky white		Colour	Colourless	
Density	Temperature	Density	Temperature	Density	
	(°C)	(g/cm <sup>3</sup> )	(°C)	(g/cm <sup>3</sup> )	
	25	1,1	25	1,15	
Viscosity	Temperature	Viscosity	Temperature	Viscosity	
	(°C)	(mPa.s)	(O°)	(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%				
per 2004/42	A, i				
EC)					
Mixing ratio,	A=100, B=19 by weight				
A/B	A=100, B=16 by volume				
Mixture	Density: 1.10 g/cm <sup>3</sup> (25°C)				
properties		-	00 mPa.s (25°C)		
Colour		Milky white			
Non-volatile	48%				
content					
Pot life		Conditions	Pot life (min)		
approximate		(100g)	400		
		20°C, 40% rh	180		
01		9°C, 60% rh	300	. f t	
Storage	Keep between 10° y 30°C. Protect from frost.				
Use before	12 months after manufacture date				

	FORMATION ON THE FINAL PR				
Final state	Solid polyuretha	ane film			
Colour	Colourless				
Hardness	55D				
(Shore)					
Mechanical	Maximum elongation: 35%				
properties	(EN ISO 527-1/3)				
Abrasion	15 mg (500 cycles)				
resistance	28 mg (1000 cycles)				
	Taber, CS-10, 1000 g				
Chemical	Surface contact, 24 hours, 25°C (5=ok, 0=not				
resistance	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	5			
Slip resistance	Quartz sand spreaded onto (0,	4-0,9 mm) at 1 kg/m <sup>3</sup> :			
	Class 3				
		(UNE EN 12633-2003)			
	Class 1 without quartz sand				
Gloss	<10% (60º, 150 microns)				

FORMATION ON THE FINAL PRODUC

## SUPPORT REQUIREMENTS

Support must fulfill 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 8%. Recommended support temperature: 10°C to 30°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 Satine 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.



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## 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.

#### **APPLICATION**

Use a suitable paint roller.

#### **RECOMMENDED QUANTITIES**

Apply up to 200 g/m<sup>2</sup> for each coat. Thicker applications can lead to blistering and/or loss of matting effect.

#### **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<sup>2</sup> applications.

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

#### RECOATING

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

#### **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.

#### 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 and	
	gloss variations.	

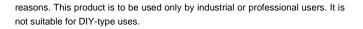
#### **MAINTENANCE**

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





#### 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" 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.