RAYCRETE M

High resistance cementitious polyurethane-ciment



DESCRIPTION

Raycrete M is a solvent free mortar screed which can be applied by trowel at a thickness between 12 and 60 mm.

- · Very resistant to organic acids and cleaning agents.
- It is applied in one single layer.
- · Fast curing (between 4 hours and over night)
- Temperature stable
- High durability
- Resistant to thermal shocks (cleaning with hot pressure water)

APPLICATIONS

The screeds made with Raycrete M are good tools for repairing sloped surfaces.

- Food industry, canneries, freezers...
- Food processing plants, kitchens.
- Chemical and pharmaceutical industry
- Vehicle maintenance, electroplating and any area of heavy use.

CERTIFICATIONS



TECHNICAL DATA

INFORM	ATION ON THE PROD	UCT BEFORE APPLICA	TION
	Component	Component B	Component C
	Α		
Chemical descrip-	Waterborne	Aromatic poly-	Sanded ce-
tion	polyol dispersion	isocyanate +	ment composi-
	+ pigment (com-	pigment	tion + pigment
Discosional adada	p.D)	(comp.D)	(comp.D) Powder
Physical state	Liquid	Liquid	Powder
Packaging	Plastic container	Metal container	Plastic
	1.9 kg	2.2 kg	container/bag
	Pigment		19.5 kg
	(comp.D = 0.2)		
	kg)		
Colour	Pigmented	Brown	Off white
	(green, red,		
	grey, yellow)		
Density	0.97 g/cm ³	1.20 g/cm ³	1.55 g/cm³ (bulk)
Viscosity	250 mPa.s	90 mPa.s	n.a
Approximate val-	(25°C)	(25°C)	
ues Brookfield			
VOC content	<25 g/L,<0.5%	<2 g/L, 0.5%	n.a
Mixing ratio	A=10.9, B=11.2 C=100 by weight A=18, B=15 C=100 by volume		veiaht
Mixture density	1.5 g/cm ³		
Pot life	20 minutes (23°C)		
approximate			
Storage	Keep between 10° and 30°C.		
Use before	12 months after manufacturing date.		

INFORMATION ON THE FINAL PRODUCT				
Final state	Rigid film			
i iliai state				
Colour	Pigmented			
Hardness	82D			
Shore				
Adhesion	Concrete: >10 MPa			
strength				
Use temperature	12 mm: -40°C to +130°C			
UV resistance	Aromatic isocyanate based product. Yellowing under sunlight when applied outdoors is to be expected. This			

KRYPTON G	

KRYPTON CHEMICAL SL

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	does not impair mechanical propertie	es.	
Chemical resistance	Surface contact (24 h, room temperature, 5=ok, 0=not recommended)		
	Substance	Result	
	Water	5	
	Ammonia (3%)	5	
	Methoxypropylacetate	5	
	Xylene	5	
	Hydrochloric acid	5	
	Ethyl alcohol	5	
	Acetic acid (100%)	3	
	Acetic acid (50%)	4	
	Tetrahydrofurane	5	
	Hydrogen peroxide	5	
	Bleach	5	
	Diesel	5	
	Sodium hydroxide (40 g/L)	5	
	Phosphoric acid	5	
	Sulphuric acid (98%)	3	
	Phosphoric acid (85%)	5	
	Isopropyl alcohol	5	

SUPPORT REQUIREMENTS

In order to achieve a good penetration and bonding, support must be:

- 1. Flat and leveled
- Compact and cohesive (pull off test must show a minimum resistance of 1.4 N/mm²).
- Free from cracks and fissures. If any, they must be previously repaired
- Clean and dry, free of dust, loose particles, oils, organic residues or laitance.

AMBIENTAL CONDITIONS

The product should be applied at a support temperature of at least 3°C above dew point, an air temperature above 15°C and relative humidity should be lower than 80%.

The maximum application temperature shall not surpass 40°C.

These temperatures must be constant throughout drying process. Application should be done with plenty of air/ventilation.

SUPPORT PREPARATION

Concrete surfaces need to be prepared mechanically by milling techniques to lift the surface and open the pores. The result should be a rough surface with irregularities between 1 and 2mm.

It is important to create regularly spaced joints in the concrete, depending on the surface which is to cover and on the length of the ends of the application.

Remove all kind of dust and loose materials from the surface with a brush, broom or vacuum cleaner.

MIXING

Mix the components in a bucket of enough capacity and stir gently. Dosification is as follows:

Component A: 1 unit (2.1 kg) Component B: 1 unit (2.2 kg) Component C: 1 unit (19.5 kg)

Mixing should be carried out with a mechanical mixer. Pour the previously mixed material gently onto the prepared surface and extend it with a trowel or a rake. Close superficially with a steel trowel. Don't create a surface with too much resin.

To obtain best results, air and material temperatures should lay between 15 and 25°C. Surface temperature should be at least 8°C.

Don't apply if there are condensations or if there's the possibility that they appear during the application or curing. For example, when dew point is reached or when the surface and air temperature are less than 3°C from the dew point.

APPLICATION/CONSUMPTION

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Apply with a trowel or a spatula. Approximate consumptions:

Dry thickness (mm)	Consumption (kg/m²)
12	21
25	44
45	79
60	105

Recommended application: generally, between 12 and 60 mm.

CURING TIME

Conditions	Dry to touch (h)
22°C, 50% rh	20

REAPPLICATION

Usually the needed thickness can be achieved in a single coat.

RETURN TO SERVICE

Depending on the ambient conditions, light traffic is allowed after 24 hours. Total hardness and full use (e.g. heavy vehicles) is reached after 6 days.

TOOL CLEANING

Use water before curing

SAFETY

Component B contains isocyanates. Always follow instructions 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 used only for the uses and in the way here described. 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 with the same precautions as if they were full. Treat empty containers as hazardous waste, and transfer them to an authorized waste manager. If the containers still have some material left, do not mix with other product before considering the risk of potential dangerous reactions. Never mix in volumes larger than 5 litres in order to prevent a dangerous heat evolution.

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 studying 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 data sheet supersedes previous versions.



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