IMPERMAX B 1K

Liquid polyurethane bitumen waterproofing membrane



2 0

2.6

1.4

DESCRIPTION



One-component

up difficult to access readings and details. The membrane cures in a continuous and

elastic form, as totally adhered layer. This

waterproofing layer guarantees total water tightness and withstands building movements.

One-component product that forms a continuous, elastic membrane with excellent mechanical and adhesion properties that make it resistant to weathering, chemistry and U.V.

APPLICATION

- · Balconies, terraces.
- Flooring with light pedestrian traffic.
- Basement
- Asphalt, EPDM and PVC trim.
- Roof
- Flashing (details of waterproofing project with bituminous membrane)

ADVANTAGES

Bituminous, elastic, and seamless coating, weather resistant and excellent bonding. No reinforcement usually required except at critical points.

TECHNICAL DATA

INFORMA ⁻	TION ON THE PROD	JCT BEFORE AF	PPLICATION
Chemical	Solvent borne single-component bituminous aromatic		
description	polyurethane		
Physical state	Liquid-paste		
Packaging	Metal container: 5 / 25 kg		
Non-volatile	70%		
content (%)			
Flash point	45° C (ASTM D 93)		
Available	Black		
colours			
Density	1.12 g/cm3 (25°C)		
Viscosity	-		\ P
(Brookfield)	Temp (°c)	RPM	Viscosity (mPa.s)
	25	100	5400
VOC (g/L & %) VOC class	VOC content: 330 g/l Product subclass: i II Solvent based single-component performance products Limit from 01/01/2010: 500 g/L		
Pot Life	8-12 hours (1 kg, 20 ⁰	² C, 50% hr)	
Storage	Keep at a temperature below 30°C, away from ignition sources and moisture Product may be used up to 6 months after manufacture in its sealed original Container		

	INFORMATION ON T	HE FINAL PRODUC	СТ
Final appearance	Solid elastomeric membrane		
Colour		Black	
Hardness (shore)		35 A (ISO 868)	
Water vapour	μ>1000 (EN 1931)		
permeability	20 g/m² day		
Mechanical properties	Maximum elongation Tensile stress: 2 M (EN-ISO 527-3)		
Chemical resistance	Permanent contact (0=worst, 5=best)		
resistance	Chemical	Conditions	Result
	Water Salt water	24 h, 25°C 24 h, 90°C	<u>5</u> 5
	Hydrochloric	200 g/l, 24 h,	4
	acid solutions	25°C	
		200 gl/l, 2 h, 80°C	4
		3 g/l, 24 h, 25°C	5
		3 g/l, 24 h, 80°C	4
	Sodium hydroxide	40g/l, 24 h, 25°C	5
	Ammonia 3%	24 h, 25°C	5
Adhesion	Surface	Fo	rce (MPa)

SUPPORT REQUIREMENTS

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

- 1. Flat and levelled (Impermax B 1K is self-levelling)
- 2. Coct and cohesive (pull off test must show a minimum resistance of 1,4 N/mm²).

Concrete

Ceramics Polyurethane foam

- 3. Even and regular surface
- 4. Free from cracks and fissures. If any, they must be previously repaired.
- 5. Clean and dry, free of dust, loose particles, oils, organic residues or laitance

RECOMMENDED ENVIRONMENTAL CONDITIONS

Support temperature should be between 0°C and 30°. At higher temperatures, specific precautionary measures must be taken. Please follow manufacturer advice.

Air temperature must be between 0°C and 30°C

High temperature and moisture conditions can reduce the pot life and lead to bubble formation under the membrane surface, and a deficient appearance.

MIXING AND APPLICATION GUIDELINES

Stir and homogenize the product before use. Some of the contents settle during storage and must be redispersed. Allow some minutes to release air bubbles. Stirring should be done at low speed, avoiding mechanical means to prevent bubbles.

If needed, the product may be thinned with up to 10% of Rayston solvent, as a viscosity adjustment. Never use universal or unknown solvents (e.g. white spirit or alcohols)

Apply by roller, brush or airless machine. Apply approximate 1,5-2 kg/m2 in one or two layers. It is strongly recommended to use entirely the product of the container. Non used product even kept in a closed container, may develop a thick cured skin on the surface.



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

Latest update: 03/12/2021

Page: 1/2

IMPERMAX B 1K

Liquid polyurethane bitumen waterproofing membrane



CURING TIME

Curing time is dependent on the environmental conditions. Curing rate increases with temperature and humidity rises. The following table gives a rough estimation of the curing time under diverse conditions for a 1 mm coat.

Temperature(°C)	RH (%)	Dry to touch (h)
7	50	4
27	60	1

RETURN TO SERVICE

At usual conditions (25°C, 50%) the membrane achieves up to 90% of its final properties in 3 to 4 days. Final hardness is not achieved until 10 or 15 days. I tis preferable to wait this time before permanent contact with water is allowed. Reapplication is possible as soon as the curing state of the first coat allows walking and working on it, and it should be done before 48 hours.

TOOL CLEANING

Liquid Impermax B 1K can be cleaned with Rayston Solvent, acetone, and alcohols. Once hardened, it cannot be dissolved. It is recommended to clean equipment as soon as possible.

FAQ

Problem	Question	Cause	Solution
	Suitable solvent?	Some thinning solvents are not suitable	Apply a second coat using only Rayston Solvent as a diluent
Does not cure	Too diluted	An excess of solvent slows the curing rate	Use less diluted product
	Temperature is too low?		Use of Super accelerant is possible

	Normal evolution in
High viscosity	storage. Can be adjusted
-	using Rayston solvent

SAFETY

Impermax B 1K contains isocyanates and flammable solvents. Always follow the instructions provided in the material safety data sheet and take the precaution described there. As a general rule, suitable ventilation must be ensured, and all ignition sources must be avoided. 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 taking the same precautions as if they were full. Containers must be considered as hazardous waste, to be transferred to an authorized waste manager. If there is some residual product in the containers, do not mix it with other substances without checking for possible dangerous reactions.

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" 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.



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

Latest update: Page: 03/12/2021

2/2