IMPERMAX QC

Fast curing liquid polyurethane waterproofing membrane



DESCRIPTION



One component liquid semi-thixotropic waterproofing composition, after polymerization gives an elastomeric, cold-applied polyurethane membrane.

The membrane cures in a continuous and elastic form, as a fully adhered layer. This waterproofing layer guarantees total water tightness and withstands building movements.

Its fast-curing rate allows its use as a base coat or reinforcing layer when the usual Impermax curing time makes the the overall job to take undesirably long time to complete (e.g. low temperature applications).

APPLICATION

- Balconies, terraces.
- Baths (showers), kitchens and difficult access spots.
- Flooring with pedestrian traffic.
- Stairs, stadiums, stands.
- Water pipes and reservoirs



ADVANTAGES

Elastic and seamless coating, weather resistant and excellent bonding. No reinforcement usually requiredexcept at critical points.

CERTIFICATIONS

- ETA: European Technical Assessment document No 06/0263 CE marking: 10 and 25 years.
- BBA :Agreement for roofs (nº11/4836)











TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION			
Chemical	Colvert house single component growstie polywethere		
description	Solvent borne single-component aromatic polyurethane		
Physical state	Líquid-paste		
Packaging	Metal container: 5 / 10 / 25 kg		
Non-volatile	85%		
content (%)			
Flash point	45° C (ASTM D 93)		

Available colours	Available colours listed in the current price list.		
Densidad	1.3 g/cm ³ (20°C)		
Viscocidad			
(Brookfield)	Temp (°c)	RPM	Viscosity (mPa.s)
	20	100	10000
	35	100	1500

	•
VOC (g/L & %)	VOC content: 184 g/l
VOC class	Product subclass: i II Solvent based single-component performance products
	Limit from 01/01/2010: 500 g/L
Pot Life	4 - 6 hours (1 kg, 20°C, 50% hr)

Storage	Keep at a a temperature below 30°C, away from ignition
	sources and moisture
	Product may be used up to 12 months after manufacture
	in its sealed original Container (Note: 9 months if white or
	black pigmented).

	IFORMATION ON TH	E EINIAL BRODU	OT.		
Ir	NFORMATION ON TH	E FINAL PRODU	UI .		
Final	Solid elastomeric menbrane				
appearance	John	Solid elastoment menbrane			
Colour	According	According to the specific pigmentation			
Hardness		OF 70 A (100 000)			
(shore)	65-70 A(ISO 868)				
Density film	1,3 g/cm ³				
Tear strength	14 N/mm (ISO 34-1, Method B)				
Water vapour	μ>1000 (EN 1931)				
permeability	20 g/m² day				
Abrasion	14,3 mg (Taber, 1000 cycles, CS-10, UNE 48250)				
Mechanical	Maximum elongation: 617%				
properties	Tensile stress: 4.1 MPa (EN-ISO 527-3)				
	Elongation (%)	stress (MPa)			
	100	2.0			
	200	2.8			
	300	3.0			
	400	3.4			
Chemical	Permanent contact				
resistance	(0=worst, 5=best)				
	Chemical Conditions Resu				

Chemical	Permanent contact (0=worst, 5=best)			
resistance	Chemical	Conditions	Result	
	Wáter	24 h, 25°C	5	
	Salt water	24 h, 90°C	5	
	Hydrochloric acid solutions	200 g/l, 24 h, 25°C	4	
		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	
	Acetone	24 h, 25°C	1	
	Ethyl acetate	24 h, 25°C	3	
	Xylene	24 h, 25°C	5	
	Motor oil	24 h, 25°C	5	
	Brake fluid	24 h, 25°C	2	

	brake ilulu	24 II, 25°C	2
Adhesion			
	Surface	Surface	
	Concrete		2.0
	Ceramics		2.6
	Polyurethane foar	m	1.4
UV resistance	Products includes anti UV additives. A colour change is expected due to itsaromatic polyurethane composition. This discolouration does not affect itsproperties.		
Thermal	Stable up to 120°C.		
resistance	•		
resistance			
Fire resistance	B roof= t1 (External fire exposure test).		

SUPPORT REQUIREMENTS

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

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



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 QC

Fast curing liquid polyurethane waterproofing membrane



RECOMMENDED ENVIRONMENTAL CONDITIONS

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

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

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

MIXING AND APPLICATION GUIDELINES

Stir and homogenise the product before use. Some of the contents settleduring storage and must be redispersed. Allow some minutes to release airbubbles. 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 aviscosity adjustment. Never use universal or unknown solvents (e.g. whitespirit or alcohols)

Apply by roller, brush, spreader or airless equipment. It is useful to apply in 2differently coloured coats, at 1,5-2 kg/m 2 eachlt is strongly recommended touse entirely the product of the container. Non used product even kept in aclosed container, may develop a thick cured skin on the surface..

CURING TIME

Curing time is dependent on the environmental conditions. Curing rateincreases with temperature and humidity rises. The following table gives arough 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 QC 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 diluant
Does not cure	Too diluted	An excess of solvent slows the curing rate	Use less diluted product
	Temperature is too low?		Use of Superaccelerant is possible
High viscosity			Normal evolution in storage. Can be adjusted using Rayston solvent

SAFETY

Impermax QC contains isocyanates and flammable solvents. Always follow theinstructions provided in the material safety data sheet and take the precautiondescribed there. As a general rule, suitable ventilation must be ensured andall ignition sources must be avoided. This product is intended to be used onlyfor the uses and in the way here described. This product is to be used only byindustrial or professional users. It is not suitable for DIY-type uses.

ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled taking the same precautions as if theywere full. Containers must be considered as hazardous waste, to be transferred to an authorized waste manager. If there is some residual product in thecontainers, 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 on 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

Latest update:

Page: 2/2

03/12/2021