IMPERMAX ST





One component liquid waterproofing composition, after polymerization gives an elastomeric, cold-applied polyurethane membrane. Slightly thixotropic, low sagging product. The membrane cures in a continuous and elastic form, as a totally adhered layer. This waterproofing layer guarantees total watertightness and withstands building movements.

APPLICATION

- Balconies, terraces.
- Baths (showers), kitchens and difficult access spots.
- Flooring with light pedestrian traffic.
- Stairs, stadiums, stands.
- Canals and water tanks

PROPERTIES

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

CERTIFICATIONS

- ETA: European Technical Agreement Document No 06/0263 -10 and 25 vear CE marking
- Root resistance according to CEN/TS 14416:2014 (reinforced with fiberglass)



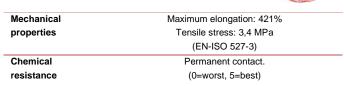






INFORMATION O	N THE PRODUCT	BEFORE A	PPLICATION	
Chemical description	Solvent borne single-component aromatic			
		polyurethane	Э	
Physical state	Liquid			
Packaging	Metal cans: 6 / 25 kg			
Non-volatile content	85%			
Flash point	45° C (ASTM D 93)			
Available colour	See available colours in the current price list			
Density	1,3 g/cm ³ (20°C)			
Viscosity	Tempera	Speed	Viscosity	
	ture (°C)	(rpm)	(mPa.s)	
	20	100	12000	
	20	5	30000	
	35	100	8000	
	35	5	15000	
VOC (g/L and %)	VOC content: 184 g/l			
VOC class as per	Product subcla	ıss: i II Solve	nt based single-	
2004/42/EC	componer	nt performand	ce products	
	Limit fro	m 01/01/201	<u>0</u> : 500 g/l	
Pot life	4 to 6 hoւ	ırs (1 kg, 20°	C, 50% hr)	
Storage	Keep at a a temp	erature belov	w 30ºC, away fro	m
	ignition	sources and	moisture	
Use before	Product may be used up to 12 months after			
	manufacture in its sealed original container (Note:			
	9 months if white or black pigmented).			

INFORMATION ON THE FINAL PRODUCT		
Final state Solid elastomeric membrane		
Colour	Depending on the chosen pigmentation	
Hardness (Shore)	65-70A (ISO 868)	
Density of film	1.35 g/cm ³	



Chemical	Test conditions	Result	
Water	24h, 25°C 5		
Salt water	24h, 90°C	5	
Hydrochloric acid	200 g/l, 24h,25°C 4		
solutions	200 g/l, 2h,80°C	4	
	3 g/l, 24h,25°C	5	
	3 g/l, 24h,80°C	4	
Sodium hydroxide	40 g/l, 24h,25°C	5	
Ammonia (3%)	24h,25°C 5		
Acetone	24h,25°C 1		
Ethyl acetate	24h,25°C 3		
Xylene	24h,25°C	5	
Motor oil	24h,25°C	5	
Brake Fluid	24h,25°C	2	
Adhesion	Surface	Force (MPa)	
	Concrete	2,0	
	Ceramics	2.6	
		1.4	
	Polyurethane Foam	1.4	
UV resistance	Polyurethane Foam Products includes anti UV ad	****	
UV resistance	· · · · · · · · · · · · · · · · · · ·	ditives. A colour change	
UV resistance	Products includes anti UV ad	ditives. A colour change omatic polyurethane	
UV resistance	Products includes anti UV ad is expected due to its arc	ditives. A colour change omatic polyurethane ation does not affect its	
UV resistance Water vapour	Products includes anti UV ad is expected due to its arc composition. This discolours	ditives. A colour change omatic polyurethane ation does not affect its es.	
	Products includes anti UV ad is expected due to its arc composition. This discolours properti	ditives. A colour change smatic polyurethane ation does not affect its es.	
Water vapour	Products includes anti UV ad is expected due to its arc composition. This discolours propertii p>1000 (EN	ditives. A colour change omatic polyurethane ation does not affect its es. 1931) day	
Water vapour permeability	Products includes anti UV ad is expected due to its arc composition. This discoloura propertii	ditives. A colour change matic polyurethane ation does not affect its es. 1931) day 1, Method B)	
Water vapour permeability Tear strength	Products includes anti UV ad is expected due to its arc composition. This discoloura propertii	ditives. A colour change omatic polyurethane ation does not affect its es. I 1931) day 1, Method B) s, CS-10, UNE 48250)	

SUPPORT REQUIREMENTS

To achieve a good penetration and bonding, support must be:

- 1.Flat and levelled
- 2. Compact and cohesive (pull off test must show a minimum resistance of 1,4 N/mm^2).

External fire exposure test (according to BS 476: Part 3, 2004): Category EXT.F.AC

- 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 40°. At higher temperatures, specific precautionary measures must be taken. Please follow manufacturer advice. Air temperature must be between 0°C and 30°C. High moisture conditions can lead to bubble formation under the membrane surface. In cold weather, or when curing time has to be shorter, accelerators can be used. More information under request.

APPLICATION GUIDELINES

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). Mix preferably by hand without mechanical means. Apply by roller, brush, spreader, or airless equipment. It is useful to apply in 2 differently colored coats, at 1 kg/m2 each. Although not strictly necessary, it is strongly recommended to use entirely the product of the container. If there is some product left, ensure it is completely sealed after use.



KRYPTON CHEMICAL SL

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IMPERMAX ST

Liquid polyurethane waterproofing membrane

RAYSTON

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)
4	60	30-35
24	52	8-9
35	12	15-20
35	50	4

RETURN TO SERVICE

At usual conditions the membrane achieves up to 90% of its final properties in 3 days. Usually walking time is 1 or 2 days. Final hardness is not achieved until 10 or 15 days. It is preferable to wait this time before contact with water is allowed

TOOL CLEANING. CLEANING AND MAINTENANCE

Liquid Impermax ST can be cleaned with Rayston Solvent, acetone and alcohols. Once hardened, it cannot be dissolved. A maintenance work must be carried out regularly on the treated roofs according to the intended use.

This work includes the following tasks:

- Leaf removal
- Grass, dirt, moss and other vegetation removal
- Keeping storm water system in good working order.
- Ensure gratings are in place, to prevent gutter obstructions.
- Check proper condition of several structures (flashing, seams, retaining walls...)
- Verification of possible damages due to improper use.

If aesthetic appearance of the roof is an important issue, it is essential to regularly clean the surface with water (some mild detergent may be added), according to the use. It may be necessary to reapply decorative layers (Impertrans, Colodur) if they are worn out due to traffic, weather, corrosion, etc. For stain removal, a surface treatment with Rayston solvent or isopropyl alcohol may be attempted. Strong acids are totally inadequate. Some solvents may damage the membrane. If this happens, the affected area has to be cut and repaired with a new Impermax ST application.

FAQ

Problem	Question	Cause	Solution
Does not cure	Suitable solvent?	Some thinning solvents are not suitable	Apply a second coat using only Rayston Solvent as a diluant
	Too diluted	An excess of solvent slows the curing rate	Use less diluted product
	Temperature?	Normal at low temperatures	Below 15°C use of accelerators is advised
Bubbles	Porous support?	High temperature	Wait until temperature drops and apply a first coat, diluted at less than 500 g/m2
-	Non-porous support?	Stirring to fast	Wait deaeration after stirring. Use spike roller after application
Blister		Moisture pigment	Use proper priming Cut and repair affected area

Poor hiding – power	Horizontal?	Too little	Follow minimum 1 kg/m2
		product	rule each coat
	Vertical?	Normal in a	Use thixotropy or
		self-leveling	thickening additives from
		product	Rayston.
Gray turns to green		Aromatic –	
		type	
		isocyanates	Last coat in dark colour
	Important?	turn to	or provide an aliphatic
		yellow/brown	topcoat
		under	
		sunlight	
			Water droplets will create
			craters if the membrane
			has not developed a
In case of rain			surface skin yet. Apply a
			second coat to correct
			these defects. Overall
			membrane properties are
			not affected by slight
			surface cratering.
What if			
permanent			Use Impermax Aqua
contact is			version instead
possible?			
High viscosity		·	Normal. Viscosity rises
			during shelf life. It can be
i ligit viscosity			adjusted using Rayston solvent

SAFETY

Impermax ST contains isocyanates and flammable solvents. Always follow the instructions provided in the material safety data sheet and take the precaution described there. As a rule, a 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.



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