IMPERMAX TIXO

Non-sagging polyurethane waterproofing membrane



DESCRIPTION

One component waterproofing composition high viscosity, after polymerization gives an elastomeric, cold-applied polyurethane membrane.

The membrane cures in a continuous and elastic form, as a totally adhered layer. This waterproofing layer guarantees total watertightness and withstands building

APPLICATION

All kinds of roof flashings and sloped surfaces:

- Balconies, terraces.
- Replacement of traditional bitumen layer in the waterproofing of upstands and vertical surfaces (Flashing).
- Baths (showers), kitchens and difficult access spots.
- Flooring with light pedestrian traffic.
- Stairs, stadiums, stands.
- Water channels and reservoirs.

ADVANTAGES

Elastic and seamless coating, weather resistant and excellent bonding. Non water emulsifiable. Permanent water contact is allowed. No reinforcement usually required except at critical points.

CERTIFICATIONS

ETA: European Technical Agreement Document Nº 06/0263 -10 and 25 year CE marking.









TECHNICAL DATA

INFORMATION O	N THE PRODUCT I	BEFORE	APPLICATION
Chemical description			mponent aromatic
		polyuretha	
Physical state		Liquid-pa:	ste
Packaging	Metal cans: 6 / 10 / 25 kg		
Non-volatile content (%)	85%		
Flash point	45° C (ASTM D 93)		
Available colour	See	current p	rice list
Density	1,	3 g/cm ³ (2	20°C)
Viscosity			ends on shear and
approximate Brookfield	temperature		
approximate brooklielu	Temperat ure (°C)	Rpm	Viscosity (mPa.s)
	20	100	20000-50000
	20	.1	200000
	35 35	100	20000-50000 100000
VOC (g/L i %)		content:	
VOC class as per	Product subclas	ss: i II Sol	vent based single-
2004/42/EC	componen	t performa	ance products
	Limit fror	n 01/01/2	010: 500 g/l
Pot life	4 a 6 hours (1 kg, 20°C, 50% hr)		
Storage			ow 30°C, away from
	ignition s	sources ar	nd moisture
Use before			to 12 months after
	manufacture in its	sealed ori	ginal container (Note:

INFORMATION ON THE FINAL PRODUCT		
Final state	Solid elastomeric membrane	
Colour	According to the specific pigmentation	
Hardness (shore)	65-70A, (ISO 868)	
Density of film	1,35 g/cm ³	



Elongation (%)	Stress (MPa)
100	2.0
200	2.8
300	3.0
400	3.4
	10.101

Maximum elongation: 421% Tensile stress: 3,4 MPa (EN-ISO 527-3)

Chemical	Permanent contact.
resistance	(0=worst, 5=best)

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
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
	Polyurethane Foam	1.4
UV resistance	Products includes anti UV additives. A colour change	
	is expected due to its aromatic polyurethane	
	composition. This discolouration does not affect its	
	properties.	
Water vapour	μ>1000 (EN 1931)	
permeability	20 g/m ²	day
Tear strength	7,1 N/m	nm
Abrasion	14,3 mg (Taber, 1000 cycle	s, CS-10, UNE 48250)
		·
Termal resistance	Stable up to 120°C.	
Fire resistance	B roof= t1 (External fi	re exposure test)

SUPPORT REQUIREMENTS

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

- 1. Compact and cohesive (pull off test must show a minimum resistance of 1,4
- 2. Even and regular surface
- 3. Free from cracks and fissures. If any, they must be previously repaired.
- 4. 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

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

High moisture conditions can lead to bubble formation under the membrane

APPLICATION GUIDELINES

Apply by spreader. It is useful to apply multiple layers in 2 different colour coats, to obtain a 1,5 to 1,9 mm membrane (2 kg/m²). 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.

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



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9 months if white or black pigmented).

Latest update: 18/05/2023

> Page: 1/2

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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

Liquid Impermax can be cleaned with Rayston Solvent, acetone and alcohols. Once hardened, it cannot be dissolved.

CLEANING AND MAINTENANCE

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, in order 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 application.

FAQ

Question	Answer
It can be thinned?	Rayston Solvent can be added for ease of application, but bear in mind that thixotropic effect will decrease. Polyurethane-reactive solvents are totally unsuitable. All other remarks concerning Impermax apply.

SAFETY

Impermax 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.



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Page: 2/2