IMPERMAX AQUA

Single-component waterborne polyurethane membrane



DESCRIPTION AND APPLICATIONS

Impermax Aqua is an easy to apply, polyurethane waterborne resin that, upon polymerization, forms a rubber-like waterproofing elastomer, able to bridge-over the fissures of the support. Impermax Aqua is a pigmented, high thixotropic resin. Very good UV and weather resistant (not yellowing if exposed to sunlight).

APPLICATION

Waterproofing and protective coating for:

Sloped roofs, balconies and terraces (membrane always exposed)

Chimney joints and other roof details

Walls, facades and other vertical surfaces

Protection of polyurethane insulation foam

Anti carbonation treatment for concrete structures

ADVANTAGES

Seamless, elastic, weather resistant membrane. Better performances when cored with a waterborne acrylic membrane, specially at high/low temperatures and at mid and long term, after being exposed outdoors for a long period of time. Good resistance to permanent contact with water.

CERTIFICATION



CE marking EN 1504-2: 0370-CPR-2247

TECHNICAL DATA

PRODUCT	INFORMATION BEFORE APPLICATION
Chemical	Polyurethane water dispersion
description	
Physical state	Liquid
Packaging	Plastic, 22.5 kg
Non-volatile	63%
content (%)	03%
Available	White, red, tile red, dark gray.
Colours	Other colours on request
Density	1.4 g/cm ³ (20°C)
Viscosity	
Approximate,	10000-25000 mPa.s (s64, 50 rpm, 23°C)
Brookfield	
Storage	Frost sensitive
Use before	Product may be used up to 24 months after manufacture in its sealed original container.

INFORMATION ON THE FINAL PRODUCT	
Final appearance	Solid, elastic membrane
Hardness Shore	80A
Mechanical properties	Elongation: 200%
	Tensile strength: 2 MPa
Adhesion	2,4 , concrete (EN-1542:1999)
Water Vapour permeability	9,8 grams/m² x day, S _d = 2,1 meters (EN ISO 7783:2012)
Permeability to liquid water	0,012 Kg/m ² x h ^{0,5} (EN-1062-3:2008)
Permeability to carbon dioxide, CO ₂	$4,5 \text{ g/m}^2 \text{ x day. } S_d = 56 \text{ meters (EN-1062-6:2003)}$

SUPPORT REQUIREMENTS

In order to achieve a good adhesion, support must be:

- 1. Flat and levelled
- 2. Coct and cohesive (pull off test must show a minimum resistance of 1,5 $\mbox{N/mm}^2\mbox{)}.$
- 3. Even and regular surface
- 4. Free from cracks and fissures. If any, they must be previously repaired.
- Clean and preferably dry, free of dust, loose particles, oils, organic residues or laitance.

Being a waterborne resin and showing a high permeability to water vapor when dried, may be applied over a damp support

RECOMENMENDED ENVIRONMENTAL CONDITIONS

Support temperature should be between 5°C and 40°C

MIXING AND APPLICATION GUIDELINES

Apply by roller, brush or spreader. No primer needed.

Apply minimum two layers, 1-1,2 kg/m^2 (per layer), to obtain a membrane with minimum thickness of approximately 1 mm.

If a membrane with excellent tensile strength is required (discontinuous surface with tiles, concrete with a lot of cracks or application over a structure with many movements therefore with a high risk of fissures), then it is recommended to reinforce the first layer of resin with either Geomax or Rayston Fiber 150.

Over porous surfaces, a first diluted coat (up to 20% with clean water) may be applied at 0.3 kg/m^2 as a primer to ensure better adhesion. An alternative is the Humidity Primer.

For terraces and balconies with pedestrian traffic, membrane of Impermax Aqua may be further protected with a top coat of the two component, aliphatic, waterborne PU elastic resin, Impertrans Eco (0,2-0,3 kg/m²).

Application is not recommended in case of risk of rain. The applied resin, not yet dry, can be washed up by dew or rain.

Impermax Aqua can be diluted with clean water.

CURING TIME

8 hours (20°C). May depend on the thickness of the layer, the relative humidity, the air temperature, the presence of direct sunlight and the colour of the membrane (dark colour membrane will dry faster in the presence of direct sunlight).

RETURN TO SERVICE

At usual conditions (20°C), after 24 hours

TOOL CLEANING

Impermax Aqua can be cleaned with water

SAFETY

Please refer to the Material Safety Data Sheet

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 Technical 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

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 all previous versions.



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Latest update: 03/12/2021

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