



## 1-component water based polyurethane membrane

### DESCRIPTION AND APPLICATIONS

Impermax Aqua is an easy to apply PU water dispersion that, upon polymerization, forms a rubber-like waterproofing elastomer. Impermax Aqua is a pigmented, high thixotropy product. High UV and weathering resistance.

### APPLICATION

Waterproofing and protective coating for:

Roofs, also sloped, outdoor use  
Chimney joints and other roof detailing  
Walls and other vertical surfaces  
Protection of insulation PU foam  
Anti carbonation treatment of concrete structures

### ADVANTAGES

Seamless, elastic, weather resistant membrane. Better mechanical resistance than comparable acrylic membranes, specially under severe conditions and long term performance. Better resistance to permanent contact with water.

### TECHNICAL DATA

#### PRODUCT INFORMATION BEFORE APPLICATION

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

#### INFORMATION ON THE FINAL PRODUCT

<b>Final appearance</b>	Solid, elastic membrane
<b>Hardness Shore</b>	80A
<b>Mechanical properties</b>	Elongation: 200% Tensile strength: 2 MPa

### SUPPORT REQUIREMENTS

In order to achieve a good penetration and bonding, support must be:  
1. Flat and leveled

2. Compact and cohesive (pull off test must show a minimum resistance of 1, 4 N/mm<sup>2</sup>).
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.

Presence on humidity in the substrate, if not permanent, does not impair Impermax Aqua application.

### RECOMENMEDDED 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.

Use a minimum of two coats 1-1,2 kg/m<sup>2</sup> each, to obtain a minimum thickness of approximately 1 mm.

If higher tensile resistance is needed (cracked concrete, or tiles) it is recommended a reinforcement of the first coat with a fiberglass net or Geomax geotextile.

On porous surfaces, a first diluted coat (up to 20% with clean water) can be applied at 0,3 kg/m<sup>2</sup> as a primer to ensure better adhesion. Application is not recommended in case of rain.

### CURING TIME

8 hours (20°C)

### 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 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.**