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 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 light pedestrian traffic.
- Stairs, stadiums, stands.
- Water pipes and reservoirs

ADVANTAGES

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

CERTIFICATIONS

- BBA: Agreement for roofs (nº11/4836)
- Root resistance according to CEN/TS 14416:2014 (reinforced with fiberglass)











TECHNICAL DATA

| INFORMATI | ON ON THE PROI | DUCT BEFORE API | PLICATION | |
|----------------|--|----------------------|-----------|--|
| Chemical | Solvent borne single-component aromatic polyurethane | | | |
| description | Solvent borne single-component aromatic polytretriane | | | |
| Physical state | | Liquid-paste | | |
| Packaging | Metal container: 5 / 25 kg | | | |
| Non-volatile | | 85% | | |
| content | | 0070 | | |
| Flash point | | 45°C (ASTM D 93) | | |
| Available | Available colours listed in the current price list. | | | |
| colours | | | | |
| Density | 1.3 g/cm ³ (20°C) | | | |
| Viscosity | Temperature | Speed (RPM) | Viscosity | |
| (Brookfield) | (°C) | Opeed (IXI III) | (mPa.s) | |
| | 20 | 100 | 10000 | |
| | 35 | 100 | 1500 | |
| VOC (g/L & %) | , | VOC content: 184 g/l | | |
| VOC class | % VOC: 15 | | | |
| | 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 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). | | | |

| | INFORMATION ON THE FINAL PRODUCT | | | |
|-----------------|----------------------------------|--|--------------------|--|
| Final | Solie | d elastomeric menbi | rano | |
| appearance | 30110 | elasioniene menbi | ane | |
| Colour | According | to the specific pigr | nentation | |
| Hardness | | 65-70 A (ISO 868) | | |
| (Shore) | | 03-70 A (130 808) | | |
| Density film | | 1,3 g/cm ³ | | |
| Tear strength | 14 N/r | nm (ISO 34-1, Meth | nod B) | |
| Water vapour | u>100 | 0 (EN 1931), 20 g/n | n ² dav | |
| permeability | · . | | | |
| Abrasion test | | 14,3 mg (Taber, 1000 cycles, CS-10, UNE 48250) | | |
| Mechanical | | imum elongation: 6° | | |
| properties | Te | Tensile stress: 4.1 MPa | | |
| | | (EN-ISO 527-3) | | |
| Chemical | | Permanent contact | | |
| resistance | | (0=worst, 5=best) | | |
| | Chemical | Conditions | Result | |
| | Water | 24 h, 25°C | 5 | |
| | Salt water | 24 h, 90°C | 5 | |
| | Hydrochloric | 200 g/l, 24 h, | 4 | |
| | acid solutions | 25°C | 4 | |
| | | 200 gl/l, 2 h, 80⁰C | 4 | |
| | | 3 g/l, 24 h, | 5 | |
| | | 25°C | | |
| | | 3 g/l, 24 h, | 4 | |
| | | 80°C | | |
| | Sodium | 40g/l, 24 h, | 5 | |
| | hydroxide | 25°C | | |
| | 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 | |
| Adhesion | Surface | F | orce (MPa) | |
| | Concrete | | 2.0 | |
| | Ceramics | | 2.6 | |
| 111/ | Polyurethane f | | 1.4 | |
| UV resistance | | anti UV additives. A | • | |
| | • | expected due to its aromatic polyurethane composition. | | |
| Thermal | | This discolouration does not affect its properties. | | |
| resistance | • | Stable up to 120°C. | | |
| Fire resistance | R roof- +1 | R roof- t1 (External fire expecure teet) | | |
| Fire resistance | D 1001= 11 | B roof= t1 (External fire exposure test) | | |

SUPPORT REQUIREMENTS

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

- 1.Flat and leveled (Impermax is self-leveling)
- 2. Compact 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.

RECOMMENDED ENVIRONMENTAL CONDITIONS

Support temperature should be between 0°C and 30°. At higher temperatures, specific precautionary measures must be taken. Please follow manufacturer advice. Air temperature must be between 0°C and 30°C. High temperature and moisture conditions can reduce the pot life and lead to bubble formation under the membrane surface, and a deficient appearance.



KRYPTON CHEMICAL SL

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Latest update: 26/07/2024

Page: 1/2

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MIXING AND APPLICATION GUIDELINES

Stir and homogenize the product before use. Some of the contents may settle during storage and must be redispersed. Allow some minutes to release air bubbles. 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 a viscosity adjustment. Never use universal or unknown solvents (e.g. white spirit or alcohols).

Resin can be applied by roller, brush, or spreader.

Apply in two layers a total quantity of about 1,6-2 kg/m². It is useful to apply each layer in a different color. It is strongly recommended to use entirely the product of the container.

Non used product even kept in a closed container, may develop a thick cured skin on the surface

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) |
|------------------|--------|------------------|
| 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.

It is 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 |
|-----------------|-------------------------|---|--|
| Does not cure - | Suitable solvent? | Some thinning solvents are not suitable | Apply a second coat using only Rayston Solvent as a diluent |
| | Too diluted | An excess of solvent slows the curing rate | Use less diluted product |
| | Temperature is too low? | | Use of Super accelerant is possible |
| High viscosity | | | Normal evolution in storage. Can be adjusted using Rayston solvent |

SAFETY

Impermax QC 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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