IMPERMAX B 1K

Liquid polyurethane bitumen waterproofing membrane

DESCRIPTION



One-component waterproofing coating based on polyurethane and bitumen to seal up difficult to access readings and details. The membrane cures in a continuous and elastic form, as totally adhered layer. This waterproofing layer guarantees total water tightness and withstands building movements.

One-component product that forms a continuous, elastic membrane with excellent mechanical and adhesion properties that make it resistant to weathering, chemistry and U.V.

APPLICATION

- · Balconies, terraces.
- Flooring with light pedestrian traffic.
- Basement
 Asphalt, EPDM and PVC trim.
- Asphalt, El
 Roof
- Flashing (details of waterproofing project with bituminous membrane)

ADVANTAGES

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

TECHNICAL DATA

| INFORMAT | ION ON THE PRODUCT BE | FORE APPI | LICATION | |
|----------------|---|---|----------------------------|--|
| Chemical | Solvent borne single-component bituminous aromatic | | | |
| description | polyurethane | | | |
| Physical state | Liquid-paste | | | |
| Packaging | Metal container: 6 / 25 kg | | | |
| Non-volatile | 70% | | | |
| content (%) | 1070 | | | |
| Flash point | 45° C (ASTM D 93) | | | |
| | | | | |
| Available | Black | | | |
| colours | | | | |
| Density | 1.12 g/c | 1.12 g/cm3 (25°C) | | |
| Viscosity | - | | X <i>H</i> X | |
| (Brookfield) | Temp (ºc) R | PM | Viscosity (MPa) | |
| | 25 1 | 00 | 5400 | |
| | · | | | |
| VOC (g/L & %) | | VOC content: 330 g/l Product subclass: i II Solvent based single-component | | |
| VOC class | performance products | | | |
| | Limit from 01/01/2010: 500 g/L | | | |
| Pot Life | 8-12 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 6 months after manufacture in | | | |
| | its sealed original Container | | | |

INFORMATION ON THE FINAL PRODUCT Final Solid elastomeric membrane appearance Colour Black Hardness 35 A (ISO 868) (shore) µ>1000 (EN 1931) Water vapour permeability 20 g/m2 day Mechanical Maximum elongation: >400% Tensile stress: 2 MPa properties (EN-ISO 527-3) Chemical Permanent contact (0=worst, 5=best) resistance Chemical Water 24 h, 25⁰C 24 h, 90⁰C Salt water 200 g/l, 24 h, 25°C Hvdrochloric acid solutions 200 gl/l, 2 h, 80°Ć 3 g/l, 24 h, 25°C 3 g/l, 24 h, 80°C Sodium 40g/l, 24 h, 5 hydroxide 25°C 24 h, 25°C Ammonia 3% 5 Adhesion

| Surface | Force (MPa) |
|-------------------|-------------|
| Concrete | 2.0 |
| Ceramics | 2.6 |
| Polyurethane foam | 1.4 |

SUPPORT REQUIREMENTS

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

- 1. Flat and levelled (Impermax B 1K is self-levelling)
- 2. Compact and cohesive (pull off test must show a minimum resistance of 1,4 N/mm2).

3. Even and regular surface

 Free from cracks and fissures. If any, they must be previously repaired.
 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.

MIXING AND APPLICATION GUIDELINES

Stir and homogenize the product before use. Some of the contents 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)

Apply by roller, brush or airless machine. Apply approximate 1,5-2 kg/m2 in one or two layers. 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.



KRYPTON CHEMICAL SL

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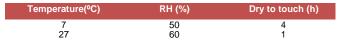
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CURING TIME

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.



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. I tis 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 CLEANIING

FAQ

Liquid Impermax B 1K 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.

| Problem | Question | Cause | Solution |
|---------------|----------------------------|---|---|
| Daga ant aver | Suitable solvent? | Some thinning solvents are not suitable | Apply a second coat using only Rayston Solvent as a diluent |
| Does not cure | 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 B 1K 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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