IMPERMAX B 2K

Liquid polyurethane membrane with bitumen

DESCRIPTION

Impermax B 2k is a two-component liquid waterproofing material that, when polymerized, forms a fully bonded polyurea-urethane elastomeric membrane with bitumen, and with crack-bridging capabilities.

It can be applied with great ease on different types of surface (concrete, mortar, brick, fiber cement, ceramic tiles, bituminous products, steel, zinc, aluminum), providing a continuous, elastic, weather resistant membrane with excellent adhesion.

Cored to traditional sheet-based waterproofing, it has the following advantages:

- Fully continuous waterproofing system, without joints, welds or overlaps, fully bonded. It does not allow water to circulate between layers. High elasticity.
- Non-emulsifiable, and water repellent.
- Quick drying, with less sensitivity to atmospheric conditions. Productive system that does not interfere with activities in the rest of the work.
- Passable without the need for special protection (although it is recommended to always cover the membrane with geotextiles of different grammage depending on the use load, and in order to avoid damage to the subsequent covering with earth).
- Impermax B 2k does not require armorbasedonmeshesorfelts (geotextile), except at singular points (edges, edges, joints, etc.).
- It is an economic system, and therefore, very interesting for public works.

TECHNICAL DATA

PRODUCT INFORMATION BEFORE APPLICATION

	Component A	Component B
Chemical identity	Aromatic polyurethane in solution	Betun and reagents in solution
Physical state	Liquid	Liquid
Presentation	Metal container 25 kg	Metal container 15 kg
Solid content	85%	78%
VOC	184 g / L 15%	217 g / L 22%
Flashpoint	45ºC	27ºC
Colour	Black	Black

Density

Temperature (ºC)	Density (g/cm³)	Temperature (ºC)	Density (g/cm³)
25	1.30	25	0.99

Viscosity

Brookfield approximate values

Temperature (ºC)	Viscosity (mPa.s)	Temperature (ºC)	Viscosity (mPa.s)
10	20000-30000	10	1100
20	6000-10000	25	850
30	1000-1500	35	500

A/B ratio: A = 100, B = 60 by weight
A = 100, B = 79 in volume

Density and viscosity of the mixture (initial)

Temperature (ºC)	Density (g/cm³)	Viscosity (mPa.s)
25	1.2	<5000

Working time **Approximate**

Conditions (100gr)	Potlife (min)
25ºC, 60% hr	60
10ºC, 60% hr	90

Storage
Expiration: Store between 10º and 30ºC, protected from humidity and ignition sources.
Expiration: 12 months from manufacture

FINAL PRODUCT INFORMATION

Final state: Elastic polyurethane-urea-bitumen solid

Colour: Black

Density of the solid: 1.3 g/cm³

Hardness (Shore): 47A

Mechanical properties

Elongation (%)	Tensile strength (MPa)
100	1.6
200	2.7
275	2.8

Maximum elongation: 275%
Tensile strength: 2.8 MPa

Tear resistance: 4.7 N / mm

Adhesion to various substrates: Concrete: 1.5 N/mm²

Chemical resistance

Substance	Outcome
Water	5
Sulfuric acid 30%	3
Methoxypropyl acetate	2
Isopropyl alcohol	3
Xylene	1
Ammonia 3%	4
Acetic acid 10%	0
Sodium hydroxide (pH = 12)	5
Bleach	5

SUPPORT REQUIREMENTS

The support to be treated must have the following minimum mechanical strengths:

Cohesion: minimum 1.5 MPa .
Compressive strength: minimum 25 MPa.

The support must be totally free of water pressure or water vapor.

The support must be clean, dry and free from any area with less or no adhesion, and with a moisture content of less than 4%. Above all, it must be free of oil, grease, cured product stains and any substance that could interfere with adhesion.

ENVIRONMENTAL CONDITIONS OF HUMIDITY AND TEMPERATURE

The ambient temperature must be between +10 and +30 ºC.

It can be applied in cold, wet weather, with rain before its total drying, which does not affect the quality of the membrane, although the force of the ict may leave "crater" marks on the film, and the application of another layer may be necessary. for regularization.

RECOMMENDED COMBINATIONS

C1

1. IH or EP100 primer: 200 g/m²,
2. Impermax B 2k: 1,5 kg/m²

SUPPORT PREPARATION

It is essential that you carry out the necessary surface treatment (sanding, shot blasting, etc.) and that the appropriate primer, Moisture Primer or EP100 Primer is applied. The primer must be dry before applyingImpermax B 2k.

MIXING

Open component A container. Shake the product mechanically at low speed to avoid excessive air intake. Then, stir component B in the same way. Mix the two components and homogenize in the same way for 2 minutes. Verify that there are no remains without mixing.

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APPLICATION

Apply by roller, brush or airless spray gun (a Graco GH-833 type machine, or similar is recommended).

Up to 10% solvent can be added if deemed necessary. NOTE: Only solvents suitable for single-component polyurethanes can be used (eg Rayston solvent)

CONSUMPTION

The product yield is 2 kg/m^2 (for a thickness of approximately 1.5 mm), applied in 2 coats. In porous supports, it is preferable to apply a first coat of product (eg 0.5 kg/m^2) as primer / impregnation, to close the pore in the support, avoiding the presence of rising air, and to seal voids and holes in the support, followed by a second coat of 1.5 kg/m^2.

DRYING TIME

Terms	Dry to touch (h)
20ºC, 40% hr	5
20ºC, 80% hr	18
20ºC, 10% hr	10
7ºC, 60% hr	12
20ºC, 40% hr	5

REAPPLICATION

A second application of Impermax B 2k is possible up to 24 hours after drying to the touch of the first.

COMMISSIONING

For light transit it is recommended to wait 3 days. The membrane reaches 100% of its properties in approximately 7 days. (20 ° C, 50% hr).

TOOL CLEANING

Component A and B can be cleaned with Rayston solvent. The hardened product cannot be dissolved, except with specials tripping products.

MAINTENANCE

Local repairs

It is necessary to repair locally always in a prudent way, trying to affect as little as possible the aesthetics of the different premises or areas, and especially the appearance of "patches". The steps are the following:

a. Cut the perimeter to be treated.

b. Start the product by manual or mechanical means, depending on the area and the period available.

c. Preparation of the support to obtain a clean, healthy and cohesive support.

d. Localized treatment using Impermax B 2k according to previous instructions.

SECURITY

Impermax B 2k contains isocyanates and flammable solvents. The handling of these products requires prior consultation of the safety data sheet. In general, it is necessary to ensure good ventilation during work and to avoid all skin contact with the product. This product is not intended for non-professional users or DIY uses.

ENVIRONMENTAL CONDITIONS

Empty containers should be handled with the same precautions as if they were full. Consider packaging as waste to be treated through an authorized waste manager. If the containers contain remains, parts A and B can be mixed as long as the correct ratio is respected and the volume does not exceed 5 liters to avoid any violent reaction.

ADDITIONAL INFORMATION

The information contained in this TECHNICAL SHEET, as well as our advice, both written and provided verbally or through tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories, and without serving as such. guarantee for the applicator, who should take them as merely indicative references and with strictly informative value.

We recommend studying this information in depth before proceeding to the use and application of any of these products, although it is especially convenient to carry out tests "in situ" to determine the suitability of a treatment in place, with the purpose and conditions concrete that occur in each case.

Our recommendations do not exempt from the obligation that the applicator has to know in depth, the correct method of application of these systems before proceeding to their use, as well as to carry out as many preliminary tests as appropriate if there is doubt as to their suitability for any work, installation or repair, taking into account the specific circumstances in
which will be used the product.

The application, use and processing of our products are beyond our control and, therefore, under the sole responsibility of the installer. Consequently, the applicator will be solely and exclusively responsible for the damages derived from total or partial non-observance of the use and installation manual and, in general, from the inappropriate use or application of these products.

This technical sheet cancels the previous versions.

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