ELASTOPLASTIK 88 PRO

LIQUID ELASTOMERIC SHEATHING AND ORGANIC COMPOUNDS DERIVED FROM ASPHALTIC ROCK.

Features

- Ready-to-use liquid product, applicable by spatula, brush or roller, for waterproofing new structures, and for repairing and, regenerating, irreversibly damaged bitumen sheaths.
- Adheres to all materials, even wet ones.
- Resistant to ultraviolet rays and ageing.
- Resistant to standing water.
- It withstands low (-20°C) and high (+150°C) temperatures.
- Environmentally friendly product.
- Vowel-free

Field of application

- Ideal for waterproofing structures of all shapes and materials.
- Protects and seals even rusty metal surfaces.
- Bonds all types of insulation boards to concrete surfaces.
- Proven product for repairing deteriorated waterproofing.
- ***ELASTOPLASTIK 88 PRO*** is ideal for renovating the waterproofing of balconies and terraces without requiring the demolition of existing flooring.
- ***ELASTOPLASTIK 88 PRO*** is recommended for waterproofing bathrooms and wet rooms with minimum thicknesses (1-2 mm).

Application

Substrate preparation

The substrate must be solid and clean of oil, grease, dust and contaminants. Any loose parts and mould must be removed. Necessary washing with cold water pressure washer.

The membrane can be applied to concrete, reinforced concrete, fibre cement, mosaic, concrete tiles, metal surfaces, etc.

The concrete substrate must have a hardness of R28= 15 MPa, a moisture content W< 10%, relative humidity < 85% and a temperature of 5° to++ 35°C.

Sheathing: eliminate all deformations of the bitumen sheathing. Any repairs can be carried out with new portions of the same material (sheathing). Any levelling out can be carried out with polyurethane foam (**FOAMSYSTEM 22 D**).

Ceramics, tiles and stoneware: prepare the surface by sanding, sanding or shot peening.

Free, standing water from the substrate or from previous washing operations or weather events must be removed or dried by suitable means.

Application

Before application, ensure that rain is not expected for at least 24 hours and that the temperature, even overnight, does not fall below +5°C.

Anti-crack support

Bond the anti-crack backing with approximately 500 g/m^2 of **ELASTOPLASTIK 88 PRO**, using a 150 g/m^2 polyester non-woven sheet or strip. Make sure to overlap the sheets and strips, leaving a 10 cm space between them. After at least 24 hours from bonding the non-woven fabric, proceed with the application of the first coat of **ELASTOPLASTIK 88 PRO** using a trowel, brush or roller. After a further 24 hours, apply a second coat of **ELASTOPLASTIK 88 PRO**, with a total consumption in the two coats of 1.5 kg/m^2.
For bonding the non-woven polyester fabric and application of the two coats, the total consumption of **ELASTOPLASTIK 88 PRO** will be approximately 2 kg/m^2.

Repair of degraded bituminous membranes

Waterproofing with flame-applied bitumen sheeting rolls often has as a weak point the butt and lateral welds between the different sheets. Over the years, due to various factors and the considerable mechanical stresses transmitted by the slab, detachment of the welds between the sheets can occur, causing water to seep into the rooms below.
Repairing these waterproofings with **ELASTOPLASTIK 88 PRO** and the Anti-Crack Support, consisting of 150 g/m non-woven polyester fabric^2, using the 25 cm wide roll, is easy, inexpensive and guaranteed.

- is easy because **ELASTOPLASTIK 88 PRO** is a ready-to-use single-component product that can be applied by spatula, brush or roller.
- it is economical because you do not have to treat the entire surface but only the welds that have failed or, as a prevention of future problems, you can only treat all the lateral and butt welds between one bitumen sheeting and the next (with the **ELASTOPLASTIK 88 PRO** system, the area to be treated is reduced to about a quarter of the total waterproofing surface).
- is guaranteed to be resistant to ultraviolet rays, ageing, standing water, low (-20° C) and high temperatures (+150° C).

For bonding the non-woven polyester fabric and application of the two coats, the total consumption of **ELASTOPLASTIK 88 PRO** will be approximately 2 kg/m^2.
Total consumption 1-2 kg/m^2+ anti-crack support.

System to renew the waterproofing of balconies and terraces without the need to demolish the existing flooring.

It is a practical, simple and economical system, carefully designed and extensively tested, also suitable for application on newly built terraces where the classic 5 cm screed is not possible due to space constraints.

- Remove the skirting board and clean the terrace thoroughly to remove soil, dust or loose parts.
- Repair any missing parts using a cement mortar mixed with the product **ITALCOLLA 220** or with **EPOX CEMENT HB RAPIDO** loaded with 0.06-0.25 mm quartz in a mixing ratio of 1:0.5 (see the corresponding technical data sheets).

To ensure the perfect seal of the system in the corners of the connection between the terrace and the vertical walls, it is necessary to glue the Anti-crack Support, non-woven polyester fabric, half on the horizontal surface and half on the vertical walls, creating a sort of 'shell'. Next, the first coat of **ELASTOPLASTIK 88 PRO** can be applied using a roller or brush, with a consumption of 0.750 kg/m^2. At least 24 hours after application of the first coat, the second coat of **ELASTOPLASTIK 88 PRO** can be applied, again with a consumption of 0.750 kg/m^2.

- In order to be able to apply the tiles on the waterproofing made with **ELASTOPLASTIK 88 PRO**, the polyester fabric Anti-crack Support must be bonded using 0.5 kg/m^2 of **ELASTOPLASTIK 88 PRO**.
- After a few days, the tiles can be glued onto the anti-crack support using a good outdoor adhesive.

On the walls against the ground

In this application, it is very important to prepare the surface to be treated, so any gravel nests or holes must be closed by spreading **ELASTOPLASTIK 88 PRO** with a trowel, used as if it were cement mortar. Any joints must be reinforced by spreading 100 g/m^{2}polyester non-woven fabric anti-crack support using the 25 cm wide roll that will be bonded to the cement surface with **ELASTOPLASTIK 88 PRO.**
On the surface thus treated, you can proceed with the application of the first coat of **ELASTOPLASTIK 88 PRO** with a roller at a rate of 0.700 kg/m^2.
24 hours after application of the first coat, a second coat of **ELASTOPLASTIK 88 PRO** will be applied with a roller and at a consumption of approximately 0.700 kg/m^2.
Wall-to-wall waterproofing with **ELASTOPLASTIK 88 PRO** must be protected from backfill gravel by using the classical plastic embossed support in rolls or polystyrene panels. Total consumption 1.5 - 2 kg/m^2.

On metal substrates

If an old, rusty metal surface is to be treated, special attention must be paid to the cleanliness of the substrate, and it must be ensured that all rust in the detachment phase and all the associated dust, which would hinder the adhesion of **ELASTOPLASTIK 88 PRO**, has been removed.
The best cleaning result is achieved using a high-pressure cleaner.
If the metal surface has holes due to wear and rust, these must be repaired using the 100 g/m^{2}polyester non-woven fabric Anti-crack Support bonded and painted with **ELASTOPLASTIK 88 PRO**. On the well cleaned and repaired metal surface, apply a first coat of **ELASTOPLASTIK 88 PRO** at a rate of approx. 500 g/m^2 with a brush or roller.

After 48 hours and not before (metal does not absorb like cement and therefore the product dries more slowly), a second application of **ELASTOPLASTIK 88 PRO** can be applied at a rate of approximately 500 g/m^2.
In the case of metal surfaces with little slope where rainwater infiltrates through the butt and side joints of the different sheets, the problem is solved by gluing on the joints with **ELASTOPLASTIK 88 PRO** using the 25 cm height.
With the use of the anti-crack support, the consumption of **ELASTOPLASTIK 88 PRO** is 0.500 kg per running metre.
Attention: with very high atmospheric temperatures it is advisable to apply **ELASTOPLASTIK 88 PRO** in the early morning hours, avoiding the afternoon because metal surfaces can reach very high temperatures when exposed to the sun, which are not good for the application of the product (the product applied on a hot surface can burn with consequent detachment). Total consumption 1 kg/m^2 + eventual anti-crack support.

WARNINGS

- Ready-to-use single-component product. Any mixing to rehomogenise the material must be carried out using a mixer at low speed to minimise air ingress.
- It is advisable never to exceed a thickness of 1 mm per application to avoid long drying times of the product.
- **ELASTOPLASTIK 88 PRO** can also be applied on damp surfaces as long as there is no water stagnation.
- On water-soaked slabs, to avoid the formation of bubbles, appropriate exhalers must be applied to eliminate the condensation that forms under the waterproof covering (approx. 1 exhaler every 50 m^2.
- **ELASTOPLASTIK 88 PRO**, which is also perfectly dried (15-20 days), is not damaged by standing water.
- The application temperature ranges from + 5°C to + 40°C.
- It is very important to know that in all applications on reinforced concrete or any type of slab where there is the presence of metal, micro-cracks are formed every 4 to 5 metres that always require the use of the anti-crack support to reinforce **ELASTOPLASTIK 88 PRO**.
- The polyester reinforcement recommended for reinforcing **ELASTOPLASTIK 88 PRO** is as follows: 150 g/m^2 non-woven polyester fabric anti-crease backing for exposed waterproofing and for waterproofing that is to be covered with a tile floor or cement screed.
- The approximate consumption of the **ELASTOPLASTIK 88 PRO**. is as follows:
    - On cementitious surfaces 2 kg/m^2 applied in two applications 24 hours apart with 150 g/m^2 polyester non-woven support fabric.
    - On old bituminous sheaths 2 kg/m^2 applied in two applications 24 hours apart with 150 g/m^2 polyester non-woven support fabric.
    - On metal surfaces 0.500 - 1 kg/m^2 applied in two applications 48 hours apart (drying time is slower on metal).
    - For small balconies (up to 3 metres long) 2 kg/m^2 plus a reinforcement with anti-crack support to which the tiles can be glued.
    - For large balconies (over 3 metres long) 2.5 kg/m^2 plus a first reinforcement to reinforce the **ELASTOPLASTIK 88 PRO** and a second reinforcement to which the tiles are glued with a good outdoor adhesive.
- **The ELASTOPLASTIK 88 PRO** in its packaging fears frost and once frozen is no longer recoverable.
- Do not apply **ELASTOPLASTIK 88 PRO** in adverse weather conditions as the still wet layer may be washed away by rainwater or ruined by frost.

- The brushes or rollers you use to apply **ELASTOPLASTIK 88 PRO** at the end of the day should be soaked in water to prevent the product from drying out. The next day they should be shaken well to remove excess water before re-use. At the end of the work, they must be cleaned well first with water and then with a solvent such as turpentine.
- It is sufficient for **ELASTOPLASTIK 88 PRO** to dry for at least 24 to 48 hours to have good rain resistance.
- If it rains on the newly applied product, the **ELASTOPLASTIK 88 PRO** will melt, and the job will have to be redone.

- For gluing with **ELASTOPLASTIK 88 PRO**, the anti-crack support, it is not necessary to first apply **ELASTOPLASTIK 88 PRO** to the surface and after a few minutes apply the reinforcement sheet (**ELASTOPLASTIK 88 PRO** would dry immediately and would not glue the reinforcement well) but it is necessary to:
    - Place the roll of Armour on the surface to be treated.
    - Apply a strip of **ELASTOPLASTIK 88 PRO** in front of the roll with a brush at a rate of approx. 0.500 kg/m^{2}and immediately on the fresh product spread the reinforcement roll by crushing it with the feet or brush to promote the penetration of **ELASTOPLASTIK 88 PRO** into the fabric.

Technical Data

Colour	Black	-
Chemical nature	Emulsion of organic compounds derived from filled asphalt rock and synthetic neoprene elastomers	
Mass density	1.05 kg/dm^3	
Viscosity at 20°C	Thixotropic	
Dry residue	65%	
Flammability	Non-flammable	
Minimum application temperature	(even at night) + 5 °C	
Elongation at break	1000%	
Resistance to high temperatures	Above + 150 °C	
Cold flexibility	- 20°C	
Shelf life	1 year from date of manufacture placed in its perfectly sealed packaging protected from frost and excessive heat	

Security

When applying this product, it is advisable to wear goggles, rubber gloves and all PPE required by current regulations for the use of chemicals.
For all additional information, please consult the product's safety data sheet.