

## BITUVER F4



**Waterproofing liquid sheath suitable for pedestrian traffic.**

Fibre reinforced and ready for use.

Available in the following colours in 20 or 5 kg packaging:

- white
- grey
- Red

**SRI - Solar Reflectance Index**

**100% white color\*\***

## TESTED FOR WATER SEAL: LEVEL L4 WITH P4 LOAD CATEGORY\*

### Intended use

- Treadable surfaces
- Waterproofing and gripping base for subsequent gluing of tiles with specific cementitious adhesives (with the CE marking: EN 12004 type C)
- Construction covers in general
- Foundation and earth retaining walls
- Restoration of old waterproofing
- Concrete terraces
- Concrete container not intended to hold potable or aggressive water
- Suitable for covering ceramic or marble flooring (after application of a coat of Elaver Plus as primer)

### Advantages

- Superior resistance to pedestrian traffic and mechanical stress
- Reduces the phenomenons of concrete carbonation
- Long lasting waterproofing resistant to atmospheric agents and UV rays
- Cold laying directly on the old bitumen sheets (without having to dismantle them)
- Perfect adherence, suitable for complex construction details and resistant to micro cracks
- Can be used both horizontally and vertically
- Low maintenance, does not need additional protection
- Also suitable for industrial area surfaces or surfaces in seaside areas
- Odourless and non-flammable product
- Non-toxic, solvent free product

\*Test method "EOTA TR007, Resistance to static indentation"  
EOTA TR 006 RESISTANCE TO DYNAMIC INDENTATION | Product water seal: Level L2

\*\*Test conducted using a bituminous membrane as support

## Consumption, application and warnings

Ready to use product. To be applied pure not diluted with water.  
Temperature of use +5°C a +35°C. Complete drying time: 24 hours

Application must include at least two coats. Average total consumption is **1.5 - 2 kg/m<sup>2</sup>** and may vary depending on the nature and porosity grade of the support and the thickness that you want to achieve.

- Mix the product well in order to obtain a uniform appearance.
- Spread the first coat of the product applying slight pressure to favour penetration of the product in the porosity of the support.
- After 6-8 hours and in any case, when the first coat is dry to the touch, remove any surface condensation and apply the second coat of the product, crossing it with the first. To achieve the correct waterproof layer, the quantity of 2 kg/m<sup>2</sup> of product must be applied (variable depending on the roughness of the support).
- Wash the tools with water while the product is still fresh.

### Laying tips

The supports must be stable, clean, dry and with a maximum moisture content of 3%, free of dust, oils, greases and in any case free of any material that can perform detaching action.  
Areas of the concrete that are uneven such as spacing iron, crawl spaces and plugs must be chiselled 3 cm and restored with anti-shrinkage cementitious mortar.

On very porous supports, primer with **Elaver Plus** diluted at 30% and leave to dry at least 4 - 8 hours.

On bituminous membranes, with or without slated protection, adhesion varies depending on the grade of ageing of the beds themselves. We recommend verifying adhesion ahead of time with a direct test.  
On new covers with membranes without mineral finish, we recommend applying **Bituver F4** after a coat of **Elaver Black** diluted at 10%.

Treat any expansion joints ahead of time and make triangular shells at least 10 cm in the wall-floor joints with anti-shrinkage cementitious mortar. Do not apply with risk of night frost. Protect the applied product from rain, dew and fog. Do not apply the product in direct sunlight.

### Usable tools:

- Smooth spatula
- Roller (sponge or short hair)
- Rubber doctor blade
- Paintbrush (for the corners)

## Performance characteristics (UNI EN 1504-2:2005 - C COVERINGS - PI MC IR PR)

CO2 Permeability | EN 1062-6 |  $S_d > 50$  m

Aqueous vapour permeability | EN ISO 7783 | Class I -  $SD < 5$  m

Capillary absorption and water permeability | EN 1062-3 |  $w < 0.1 \text{ Kg/m}^2 \cdot \text{h}^{0.5}$

Direct tensile adherence strength | EN 1542 |  $\geq 1 \text{ N/mm}^2$

Abrasion resistance | EN ISO 5470-1 |  $< 3$  g

Impact resistance | EN ISO 6272-1 | class II  $\geq 10$  Nm

## Performance characteristics (UNI EN 14891:2012 - LIQUID-APPLIED WATER IMPERMEABLE PRODUCTS FOR USE BENEATH CERAMIC TILING BONDED WITH ADHESIVES)

initial traction (point A.6.2) |  $\text{N/mm}^2 > 0.5$

Adhesion after submersion in water (point A.6.3) |  $\text{N/mm}^2 > 0.5$

Traction adhesion after heat action (point A.6.5) |  $\text{N/mm}^2 > 0.5$

Adhesion after freezing/thawing cycles (point A.6.6) |  $\text{N/mm}^2 > 0.5$

Adhesion after contact with lime water (point A.6.9) |  $\text{N/mm}^2 > 0.5$

Waterproof rating (A.7) | no penetration

Crack Bridging Ability ( $-5 \pm 1$  °C) (A.8) |  $\text{mm} > 0.75$

## Technical Data

Appearance		Thixotropic fluid paste
Stability in the original closed containers		12 months
Dry residue at 130°C:	EN ISO 3251	67% - 73%
Brookfield Viscosity at 20°C ( 6, 10 rpm)	EN ISO 3219	50,000 cP $\pm$ 10,000
Specific gravity at 20°C	EN ISO 2811-1	1.45 kg/l $\pm$ 0.05
Dust dry at 23°C		approx. 4 hours *
Complete drying		approx. 24 hours *
Cold flexibility		-20°C

*Protect from frost. Do not expose the packages to a temperature lower than +5°C.*

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