



POLYURETHANES

# PU 610

## Waterproofing Membrane

2024

# The Best Product

Single Component  
High Performance  
Keep Your Buildings Dry



# PU 610

## Polyurethane Bitumen Extended Liquid-applied Waterproof Coating



### Product Description

SAFEGUARD PU 610 is a single component, bitumen / polyurethane based waterproofing coating that bridges cracks, curing with air humidity. It is liquid. Adheres perfectly to different surfaces, creating a durable and elastic film. Has high mechanical and chemical resistance and resistant to tensile, tear and abrasion with its flexible structure.

### Areas of Application

- Foundations
- Retaining Walls

### Properties

- Suitable for cold application and can be easily applied with a roller, trowel, brush or airless spray gun.
- Displays high crack bridging property.
- Resistance to ponding water and frost.
- It maintains physical properties at  $-30^{\circ}\text{C}$  /  $+90^{\circ}\text{C}$ .
- Water vapor permeable and allows the surfaces to breathe.
- Excellent adherence properties.
- Should not be exposed to UV.
- Shows effective resistance to chemicals.
- Does not contain toxic substances after curing.
- Based on pure elastomeric hydrophobic polyurethane resin and is extended with chemically polymerised virgin bitumen.

### Consumption

- 1,4 - 2.0kg/m<sup>2</sup> - applied in 2 or 3 coats
- Consumption may vary according to surface roughness, ambient and surface temperature and application methods. Factors like surface porosity, temperature and type of application method can alter consumption. Application of SAFEGUARD Fabric reinforcement will increase consumption.

### Surface Preparation

Application surfaces should be dry and clean. Concrete and plaster residues should be mechanically removed. Oil, grease, fuel and paraffin wastes should be cleaned using chemical solvents. Damages and cracks must be repaired with suitable products before priming with a suitable primer depending on the surface condition.

- Hardness of application concrete (R28 = 15 Mpa)
- Temperature: 5-35 °C
- Relative humidity of air: < 85%

### Priming

Concrete surfaces that are sound and in very good condition does not require primer. Prime very absorbent and brittle concrete or brittle cement screed surfaces with SAFEGUARD PU 720 or SAFEGUARD PU Aqua Primer. Prime Non-absorbent surfaces like metal, ceramic tiles and old coatings with SAFEGUARD PU Aqua primer. Allow the primer to cure according to its technical instruction.

### Safety

- Wear gloves, goggles and protective clothing.
- In case of contact with skin, wash with soap and water.
- Users should refer to the latest Material Safety Data Sheets, including physical, ecological, toxicological, and other safety-related data for information or advice on the safe transport, storage, disposal of chemical products.

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#### Application

- SAFEGUARD PU 610 is applied in 2 coats with thin comb trowel, airless spraying machines, brush or roller.
- Do not wait more than 24 hours between coats.
- The primer surface should be sanded before the application of new coats exceeding 24 hours.
- If the application is intended to be applied by spraying method, the material should be applied after thinning with MEK no more than 5%.
- The packages kept at room temperature for 24 hours should be opened and mixed until homogenous consistency is achieved. Mixing should be done with low speed mixer and appropriate mixer tip.
- Ready-to-use
- SAFEGUARD PU 610 spreads homogeneously on the primed surfaces with the help of thin comb trowel, short-hair roller brush or airless spray gun.
- The layer must be protected against water and rain, external influences and mechanical stress until it is dry.
- Any second coat application should commence 6-24hrs after the first coat. It should be taken into consideration that waiting time can be shortened in hot weather and it can be extended in cold weather.

#### Packaging

23kg Metal Pail

#### Colour

Black

#### Limitations

- Due to long-term solvent odours, the environment should be well ventilated.
- Do not install the product without the use of primer.
- The surface temperature should not be less than +5°C
- Mixing of the material should be made with a special mixing device and tip which should not exceed 300- 400 RPM.
- In cold weather, packages must be stored at a minimum temperature of +15°C for at least 24 hours prior to application.
- There should be no negative water pressure present on the substrate. In such a case a special vapour barrier must be applied before application.
- After the application, the surface must be protected against water, rain, dew, snow, hail etc. until it is dry.
- Full mechanical and chemical strength will occur in 7 days.
- Contains solvent, flammable.
- Do not contact with open flames and do not smoke during application.
- Do not swallow,
- Do not use empty packages for storing foodstuffs and do not throw them into fire.
- For professional use only
- Keep out of the reach of children.
- Not suitable for waterproofing of swimming pool surfaces that are in contact with chemically treated water.

#### Shelf Life

- 12 months, from production date, if the specified storage conditions are followed in its original unopened packaging.

PROPERTY	RESULTS	TEST METHOD
Shore A Scale - Hardness	60	ASTM D 2240 /DIN 53505 /ISO R868
Application Temperature	5°C to 35°C	Inhouse Lab
Elongation at break	600%	ASTM D 412
Tensile Strength	4 N/mm	ASTM D 412
Adhesion - Concrete	>1,0 N/mm <sup>2</sup>	EN 1542
Final curing time	7 days	Conditions : 20°C, 50% RH
Overcoating	6 - 24 hours	Conditions : 20°C, 50% RH

#### Declaration

The information contained herein and in particular the application and end-use recommendations are provided in good faith, based on our current knowledge and experience when properly stored, prepared and applied. The documents does not cover all possible scenarios or imply product suitability for every case of application. Products, application surfaces and application areas are quite diverse in practice. Therefore, when using our products be sure to apply the right product in the right conditions and in the right place and strictly follow the information and instructions given by our company regarding commercial convenience and/or suitability for a particular purpose. Otherwise, Safeguard is not responsible for damages that may occur.

The user of the product (user) must test the suitability of the product for the application and purpose for which it intends to use the product. We reserve the right to change the specifications of our products. Property rights of third parties should be observed. Upon acceptance of all orders our current terms of sale and shipping shall prevail.

Users should always consider the latest edition of the Product Data Sheet (TDS), which can be obtained from our company.



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