



POLYURETHANES

# PU 280

## Waterproofing Membrane

2024

# The Best Product

Single Component  
High Performance  
Keep Your Buildings Dry



# PU 280



**SAFEGUARD**  
Waterproofing Systems

## **Polyurethane Based, One Component Liquid, Waterproof Coating**

### Product Description

PU 280 is a single component, polyurethane based waterproof coating that bridges cracks, curing with air & humidity. Liquid and ready to use. Adheres perfectly to various surfaces creating a durable and elastic film. Has high mechanical and chemical resistance and resistant to tensile, tear and abrasion with its flexible structure. PU 280 is suitable for pedestrian & light vehicular traffic.

### Area of Application

- Terrace, roof, and rain gutters,
- On patio and balconies,
- Vehicle grade system for car parks,
- Stadium turbines,
- Bridge platforms,
- On light roofs made of metal and fibrous materials,
- Bitumen, PVC, EPDM based membranes,
- Used with appropriate primers on concrete, wood and metal surfaces.

### Properties

- Suitable for cold application and can be easily applied with a roller, trowel, brush or airless spray gun,
- Creates a crack bridge,
- Resistance to ponding water,
- Suitable for light pedestrian walking.
- Maintains physical properties at  $-30^{\circ}\text{C}$  to  $+90^{\circ}\text{C}$
- Water vapor permeable and allows the surfaces to breathe.
- Excellent adherence properties.
- Shows effective resistance to chemicals.
- Does not contain toxic substances after curing.
- High elongation,
- Low VOC,
- Excellent weather and UV resistance

### Surface Preparation

The surfaces to be applied should be dry and clean. Clean concrete and plaster residues mechanically: oil, grease, fuel and paraffin wastes should be cleaned using chemical solvents. Damaged coatings, uneven surfaces and cracks should be repaired with appropriate products. After the repair, the surface should be primed with PU based primer depending on the substrate and then the application of

PU 280 should be started.

- Hardness of application concrete (R28 = 15 Mpa)
- Temperature:  $5-35^{\circ}\text{C}$
- Relative humidity of air:  $< 85\%$

### Priming

Many absorbent surfaces such as concrete, cement screed or wood should be filled with PU lining before the primer application, without creating a film.

It is of great importance for good adhesion that the surface is smooth and saturated with primer. If the surface is not cleaned and primed properly it can lead to the removal of the applied product from the surface and the formation of problems such as bubbles, craters, pinholes etc. on the surface.

### Preparation of Material

- PU 280 is a ready for use one component product. Before applying the product, mix with a suitable mixer at a speed of 300 RPM for 2-3 minutes.
- The packages should kept at room temperature for 24 hours after opening and mixed to a homogenous consistency. Mixing should be done with low speed mixer and appropriate mixer tip.

### Application

PU 280 is applied in 2 coats with thin comb trowel, airless spraying machines or brush or roller.

- Do not wait more than 24 hours between layers.
- In case of exceeding 24 hours, the application surface must be treated with sandpaper.
- If applying by spray, material should be diluted with MEK no more than 5%.
- The packages kept at room temperature for 24 hours are opened and mixed until homogenous consistency. Mixing should be done with low speed mixer and appropriate mixer tip.
- PU 280, offers practical application in ready-to-use packaging, which can be applied without thinning.
- The application must be protected against water and rain, external influences and mechanical stress until it is dry.
- Second coat application should commence after approximately 8-12 hours. It should be kept in mind that the waiting time in hot weather may be shortened and may be extended in cold weather.
- The product should be applied in thin layers to avoid problems such as pinholes and craters. The amount to be applied to the floors is specified in the consumption section.

### Limitations

- In closed areas, due to long-term solvent odour, the environment must be well ventilated.
- Do not install the product without the use of primer.
- It is recommended to use PU 450 or PU 440 topcoats after PU 280 is applied for UV protection and to prevent possible yellowing/chalking.
- The surface temperature should be  $>5^{\circ}\text{C}$
- The material should be mixed with a special mixing device and tip which does not exceed 300- 400 RPM and should not be mixed with a high speed drill.
- In cold weather, packaging must be stored at a minimum temperature of  $+15^{\circ}\text{C}$  for at least 24 hours prior to application.
- There should be no negative water pressure present. In such a case, special insulation 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.

# PU 280

## Waterproof Coating



### Product Description

PU 280 is a single component, polyurethane based waterproof coating that bridges cracks, curing with air & humidity. Liquid and ready to use. Adheres perfectly to various surfaces creating a durable and elastic film. Has high mechanical and chemical resistance and resistant to tensile, tear and abrasion with its flexible structure. PU 280 is suitable for pedestrian & light vehicular traffic.

### Area of Application

- Terrace, roof, and rain gutters,
- On patio and balconies,
- Vehicle grade system for car parks,
- Ceramics under wet volumes,
- Stadium turbines,
- Bridge platforms,
- On light roofs made of metal and fibrous materials,
- Bitumen, PVC, EPDM based membranes,
- Used with appropriate primers on concrete, wood and metal surfaces.

### Safety

- Wear gloves, goggles and protective clothing.
- In case of contact with skin, wash with soap and water. Contact a hospital or clinic in the event of any contact with the eyes. and flush with clear 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.

### Cleaning Tools

- Cleaning of the tools should be done with soapy water before curing.
- After curing cleaning should be done with thinners.

### Storage Conditions

- Store in a dry and cool environment (between +15°C/ +25°C)
- It should be protected from water, frost, heat, ignition, direct sunlight and adverse weather conditions

### Shelf Life

- 12 months from manufacture subject to the specified storage conditions and in its original unopened packaging.

# PU 610

## Waterproof Coating



### Product Description

Safeguard PU 610 is a single component liquid applied, permanent high elastic, cold applied fast curing, bitumen based polyurethane membrane, with excellent mechanical, chemical, thermal and natural element resistance properties.

### Areas of Application

- Foundations
- retaining walls

### Safety

- Wear gloves, goggles and protective clothing.
- In case of contact with skin, wash with soap and water. Contact a hospital or clinic in the event of any contact with the eyes. and flush with clear 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.

### Cleaning Tools

- Cleaning of the tools should be done with soapy water before curing.
- After curing cleaning should be done with thinners.

### Storage Conditions

- Store in a dry and cool environment (between 5°C - 35°C)
- It should be protected from water, frost, heat, ignition, direct sunlight and adverse weather conditions

### Shelf Life

- 12 months from manufacture subject to the specified storage conditions and in its original unopened packaging.