



## One Component, Elastomeric, Ready to Use, Membrane Forming Polyurethane Waterproof Coating for Roofs, Walls, Slabs or Masonry

### General

**SS - FlexProof PU** is a ready to use, elastomeric, membrane forming, liquid applied coating based on selected hybrid waterproof polyurethanes, special fillers and additives. The material is suited for most cement bound substrates to provide excellent waterproofing properties. The material, applied in liquid form, forms a tough, elastic and durable waterproof membrane on drying. **SS - FlexProof PU** is easy to apply and durable. It is UV resistant and highly flexible, which makes it suitable for use in external areas (exposed to sun). The coating will not degrade and can easily withstand thermal expansion of the substrates. It can also seal and bridge movements of minor cracks in the substrate.

**SS - FlexProof PU** can be applied on a variety of substrates such as concrete roofs, PU / metal sheets, southwest facing deadwalls in buildings and as protection for various RCC Structures. **SS - FlexProof PU** is most suitable for use on flat slabs .

It can be used for terrace gardens, sandwiched in a layer of protective plaster. It has a good resistance to alkalis, salt solutions & diluted acids. It is non hazardous.

### Product Features

- Ready to use, straight from the bucket
- Elastomeric and crack bridging
- UV Resistant
- Can be used both indoors and outdoors
- Easily repairable if damaged
- Environmentally friendly
- Applicable on a variety of substrates
- Protects substrates from both water and pollution, chlorides and gases
- Reduces Biological growths, moss, fungus etc.
- Can be pigmented to required colours
- Can be used over joints, with joint treatment
- Ideal for foot traffic without any protection



### Areas of Application

- Waterproofing of sloping roofs and domes
- As undertile waterproofing in bathrooms, balconies, terraces, etc.
- Southwest facing deadwalls, parapet walls & chajjas
- Metal or asbestos - cement roofing sheets (with joint reinforcement)
- Flat slabs, balconies, terraces and terrace gardens (reinforced with mesh and in a sandwich system)
- Roof drains, gutters and other appurtenances
- Masonry-RCC junctions, roof sheet joints, bolts, etc.
- As a protection system for concrete silos, chimneys, tall structures, etc.



### Areas of Application

<b>Specification Keywords</b>	Elastomeric, flexible, membrane forming, PU waterproofing, UV resistant, crack-bridging, Environmentally friendly, roofs, walls, domes, balconies, terraces, roofing sheets, joints
<b>Delivered As</b>	White Paste, colours on request
<b>Storage Instructions</b>	In Original Packing. In a cool dry place.
<b>Shelf Life</b>	12 Months from date of Manufacture.
<b>Post Use</b>	Use Complete Packs, Dispose packaging according to local regulations.
<b>Packing Size</b>	25 kg



## Hazards and Safety



## Technical Data

<b>Specific Gravity</b>	1.4 +/- 0.05
<b>Water Penetration</b>	Nil as per DIN 1048
<b>Application Temperature</b>	5° C to 40° C
<b>Adhesion</b>	> 1.5 N / mm <sup>2</sup>
<b>Consumption</b>	1.5 kg / m <sup>2</sup> / mm thickness, depending on roughness of surface
<b>Surface Usable After</b>	Walkable in 1 day. Total Cure 7 days.

## Instructions for Use

Always test in a small inconspicuous area with a 24-hour cure time to determine consumption, ease of application and desired results. Surface temperature should be 10 - 30 °C. Follow substrate preparation rules for painting surfaces. The substrate must be clean, dry and free from all loose particles, old paint, dust, oil and other materials having a separating effect. The substrate should be of sound nature and adequate strength (pull off strength > 1.5 N/mm<sup>2</sup> is most suitable) for maximum protection. For cracked surfaces, repair using a suitable mortar prior to coating.

**SS - FlexProof PU** is recommended to be applied after complete curing of concrete or plasters and is compatible with most polymer cement mortar substrates. Surfaces can be moist but not saturated with water (moisture content < 10%). The product should be thoroughly mixed mechanically (slow mixers) before application. **SS - FlexProof PU** should be applied by brush or roller or by airless spray method.

Prime the surface, by diluting the **SS - FlexProof PU** 1:2 with water [1 part **SS - FlexProof PU** to 2 parts water by weight]. For use as waterproofing membrane, apply two perpendicular coats of **SS - FlexProof PU** on the primed surface, with a consumption of 0.8 to 1.0 kg/m<sup>2</sup> per coat, allowing a drying-time of 4 to 6 hours between coats, depending on weather conditions. For conforming to International Specifications like ETAG 005, apply two or three coats with a total consumption of 2.0 or 3.0 kg/m<sup>2</sup>, respectively. On junctions, non-active cracks or other outstanding points, reinforce the first coat of **SS - FlexProof PU** by placing a 10-20 cm wide strip of glass fibre mesh while it is still fresh and ensuring it is completely embedded. Once it is dry, cover the mesh with second coat of **SS - FlexProof PU**. Follow similar procedure for waterproofing junctions of AC sheets or metal roofs. Do not apply when rain, dew, condensation or water contact is expected within 24 hours. Do not apply on substrates subject to rising damp or negative water pressure. Check relative humidity and dew point before applying in proximities to marine environment. Allow 48 hours to cure and protect it from rain / water during this curing period. For other uses not specified on this data sheet or further information, please contact us.

## Safety and Precautions

- Corresponding safety rules are to be followed. Contact us for other applications of this material system for the protection of your structures.
- It can cause damage to skin and eyes. Wear protective gloves and goggles and take the usual precautions for handling chemicals while using. If inhaled, move immediately to fresh air. In case of skin or eye contact, flush immediately with water for 15 minutes.
- Clean up promptly after job is complete. Clean equipment with water and allow to dry in a well-ventilated area. Allow rags etc. to dry in a well-ventilated area out of the reach of children and pets.
- Local, state and federal regulations should be consulted for proper disposal procedures.