

Technical Bulletin: **PU Safe® - Coating**

Product description

PU Safe® is a sealant for use on PU foam as a protective coating for window and door assembly. Variable diffusion openness of *PU Safe®* allows its application both indoors and outdoors. After applying *PU Safe®* a seamless, waterproof, chemically neutral, and odourless membrane. The high flexibility of the coating is particularly important in thermal and structural movements of the components, as it ensures an uninterrupted sealing surface and even small scratches and cracks can be covered. *PU Safe®* is a sealant coating for application on polyurethane foam as a protective coating for window and door assembly. These include PVC as well as aluminium coated with paint or coloured plastic film.

Ingredients

Polyacrylate dispersion, titanium dioxide, zinc oxide, calcium carbonate, silicates, water, propylene glycol, cellulose, preservatives

Product group / GIS code

BSW20

The information in the current safety data sheet apply.

Scope of application

PU Safe® is a sealant for use on PU foams as a protective coating for window and door assembly.

Product specific properties

Material characteristics:

- Air permeability: Class 4 according to PN-EN 1026: 2016
- Waterproof: Class E 1350 according to PN-EN 1027: 2016, method A (uncovered)
- Resistance load against wind load: Impermeability value did not deteriorate after variable test cycles
- Weathering / UV: 5 years
- Water vapor permeability according to DIN 4108-3: variable

methode	s_d [m] (23 °C, 300µm)
moisture range (50-93 % rel. humidity)	1,3
dry range (0-50 % rel. humidity)	0,7

VOC Regulation (EC)

This product contains < 5 g / l VOC.

Substrate preparation

The expansion joint between the window and the reveal must be filled exactly with PU foam. The PU foam must be dry and cured. The excess foam must be cut off and small holes up to an area of 0.25 cm² filled with a filler (*PU Safe® Filler*). For larger holes, they must be filled with PU foam again to maintain the continuity of the thermal barrier coating. The surface must be clean and dry.

Application

The sealant *PU Safe®* is applied with a brush. To ensure optimal product properties, it is recommended to apply at least two coats. The interval between the individual layers is at 20 ° C ambient temperature and 50% rel. humidity 4 hours. When applying, the air and object temperature should not be less than 5 °C. This also applies to the drying phase. The heat-insulating layer in the form of PU foam should be painted in such a way that the *PU Safe®* coating also covers the window or door frame as well as the reveal (at least 2 mm). In order to avoid the paint on the visible side of the window, you can cut out a thin wedge in the PU foam at the edge of the window and apply the coating only to the edge of the window frame.

Consumption

The average consumption of *PU Safe®* is about 600 ml / m² for two coats.

The consumption quantities depend on the structure and absorbency of the substrate. The coating of closed-cell, smaller-pore, low-pressure foams is, of course, more efficient than the high-expansion foam coating. Below is a yield chart. At the values stated there, it was considered that the coated area is 1 cm wider than the expansion joint.

Yield chart

Width of expansion joint	Running meter per liter (m/l)
1 cm	83
2 cm	55
3 cm	41
4 cm	33

Yield per width of expansion joint

Cleaning of tools

Thoroughly rinse out tools with water immediately after use.

Storage and transport

Store *PU Safe®* in a cool but frost-free place and transport. Seal open containers well and process as soon as possible. Shelf life from date of manufacture: 12 months.

Delivery form

2,8 litres

Disposal

Do not allow product residues to enter drains, water, or soil.

Only empty containers for recycling. Hand over product leftovers to the responsible collection points.

Waste code No. 080120 according to the EC Waste Catalog.

Security notice

The content of the technical bulletin manifests no contractual legal relation. In any case, the applicant / customer must consider the material's utilizable under practical conditions before application.

Do not allow to enter drains, water courses or soil. Keep away from food, drinks and feeding stuff. Keep out of the reach of children. Protect surfaces not to be treated by taking appropriate measure. Avoid contact with skin and eyes. Where applying with spraying method, avoid the inhalation of emerging dust. Before-mentioned information becomes invalid at release of a new technical bulletin by SICC Coatings GmbH in laboratory and practice as guideline values. The product information is given to the best of our knowledge and according to the current state of technology. Environmental influences, materials, application equipment and application methods are beyond our control and therefore out of our responsibility. SICC©2020