

TECHNICAL DATA SHEET **PU Safe® Coating**

Product Description

PU Safe® is a sealing coating for use on PU foam as a protective coating for window and door installation. The variable diffusion openness of PU Safe® allows it to be used both indoors and outdoors. After applying PU Safe®, a seamless, waterproof, chemically neutral and odourless membrane is created. The high flexibility of the coating is particularly important for thermal and structural movements of the components, because it ensures an uninterrupted sealing surface and even small scratches and cracks can be concealed. PU Safe® has good adhesion to all conventional building materials. These include PVC and 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

PU Safe® is a sealing coating for use on PU foam as a protective coating for window and door installation.

Product-specific properties

Material characteristics

Air permeability: Class 4 according to PN-EN 1026:2016
Drying range: sd = 1.7
Resistance to wind load: Tightness value did not deteriorate after variable test cycles
Outdoor weathering/UV: 5 years
Water vapour permeability according to DIN 4108-3: variable
Method sd [m] (23 °C, 300µm)
Damp area (50-93 % rh. Humidity) 1.3
Drying area (0-50 % rh. Humidity) 0.7

VOC Regulation (EC)

Limit value from 01.01.2010 for barrier primer materials (product cat. g) = 30 g/l.

This product contains < 5 g/l

Substrate preparation

Plastics:

The movement joint between the window and the reveal must be precisely filled with PU foam. The PU foam must be dry and hardened. The excess foam must be cut off and small holes up to an area of 0.25 cm² must be filled with a filler (PU Safe® Filler). In the case of larger holes, they must be filled again with PU foam to maintain continuity of the thermal insulation layer. The substrate must be clean and dry.

Processing

The PU Safe® sealing coating is applied with a brush. To ensure optimal product properties, it is recommended to apply at least two coats. The time interval between the individual coatings is 4 hours (at 20°C ambient temperature and 50% relative humidity). When applying, the air and object temperature should not fall below 5 °C. This also applies to the drying phase. The thermal insulation 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 (min. 2 mm). To avoid painting on the visible side of the window, you can cut out a thin wedge in the PU foam on 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 approx. 600 ml/m² for two coats.

The consumption quantities depend on the structure and absorbency of the substrate. The coating of low-pressure foam with a closed cell structure and smaller pores is of course more economical than the coating of foam with a high degree of expansion. The specified values took into account the fact that the painted surface is 1 cm wider than the movement joint.

Yield table

Width of the movement joint Running metre per litre (running metre/l)

1 cm 83

2 cm 55

3 cm 41

4 cm 33

Coverage per width of the joint

Cleaning the tools

Rinse rollers, brushes and sprayers thoroughly with water immediately after use.

Storage and transport

Store and transport PU Safe® in a cool, but frost-free place. Close the opening containers well and process them as soon as possible. Can be stored from the date of manufacture: 12 months.

Delivery form

2.8 litres

Disposal

Do not allow product residues to get into the sewer system, water or soil.

Only empty containers should be recycled. Drop off product residues at the responsible collection points.

Waste code no. 080120 according to the EU Waste Register.

Safety instructions

The content of the technical data sheet does not constitute a contractual legal relationship.

In any case, the processor / buyer must check the usability of the material under practical conditions before application.

Do not allow to get into sewers, water or soil. Keep away from food, drinks and feed. Protect from access by children. Areas that are not to be treated must be protected by suitable measures. Protect eyes and skin from splashes. Do not inhale the resulting spray mist when using the spray process.

With the publication of a new technical data sheet, due to the improvement of the product, the above information loses its validity.

The information provided was determined by SICC Coatings GmbH in the laboratory and practice as a guideline. The product information is provided to the best of our knowledge and corresponds to the current state of the art. Environmental influences, materials, application equipment and application techniques are beyond our influence and therefore beyond our responsibility. SICC© 2020