

TECHNICAL DATA SHEET **PV-SolarPlus**

Product Description

PV-SolarPlus is a ready-to-use CoolRoof roof coating based on reflective membrane technology for passive cooling of solar systems.

Ingredients

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

Product Group / GIS Code

BSW20

PV-SolarPlus is a resistant protective coating for almost all substrates in the roof area. The roof pitch must not be less than 3%. Regular cleaning is recommended to maintain the high reflection values. To improve cleanability, an additional protective coating with ClimateCoating GlossPlus is recommended.

Scope of application

High resistance to aggressive environmental influences such as smog and ozone, low emission, solvent-free, high UV and weather resistance, reflective, high colour fastness, waterproof, stretchable, thermally reassuring

Product-specific properties

High resistance to aggressive environmental influences such as smog and ozone, low emission, solvent-free, high UV and weather resistance, reflective, high colour fastness, waterproof, stretchable, thermally reassuring

Material characteristics

sd values according to DIN 52615

Drying range: sd = 1.7

Humidity range: sd = 0.42

Density: 1.04 kg/dm³ according to ISO 2811-1

Reaction to fire: C-s1, d0

Sunlight reflection according to DIN 67507: 84%

Total Solar Reflectance (TSR) according to ASTM E903: 91.4%

Solar Reflection Index (SRI) according to ASTM E 1980-11: 111.4

Thermal emission (THE) according to STM C 1371-04a(2010)e1: 88%

Chemical resistance: on request

Gloss: dull matt according to DIN ISO 2813

VOC Regulation (EC)

Limit value from 01.01.2010 for water-based (Wb) coating materials (product cat. d) for wood, metal or plastics for buildings, their components and decorative building elements = 130 g/l.

This product contains < 7 g/l of VOC.

Processing instructions

PV-SolarPlus can be applied to all load-bearing, clean, dry, rust-free and grease-free substrates

such as old and new plasters, metal, plastics, synthetic fibres and intact old paints. To ensure energetic properties, a diffusion-open substrate must be ensured.

In the case of bitumen, the bitumen must be at least 2 years old and completely intact.

Substrate preparation

Plastics:

check for placement of detention

Metals:

Depending on the metal and stress, base coating with ClimateCoating® RustPrimer or ClimateCoating® ZincPrimer

Non-load-bearing old coatings:

Depending on the coating material, wash, strip or remove with high-pressure or superheated steam cleaners

Substrates that interfere with adhesion:

Washing, lying, sanding

Absorbent mineral substrates:

priming with ClimateCoating® FixPlus

Processing

Processing can be carried out by spreading, rolling or spraying. For an initial coating, two coats of paint are necessary. PV-SolarPlus is set up ready for processing. If sprayers are used, the guidelines of the device manufacturer must be observed. For very rough surfaces or when using spray rods, the processing consistency can be adjusted with a little water. During processing, care must be taken to ensure that the air and object temperature is not below 5°C. This also applies to the entire drying period. Since the binder used is a UV-curing binder, care must be taken to ensure sufficient daylight UV radiation. Before use and after longer interruptions in work, the material must be stirred briefly with a motor whisk.

The drying time between each coating cycle is 12 hours.

Consumption

The consumption of PV-SolarPlus is approx. 600 ml/m² on smooth, non-absorbent substrates. If fabric embedding is used, the consumption increases to approx. 1000 ml/m². The stated consumption is designed for a double coat of paint.

The consumption quantities depend on the structure and absorbency of the substrate and, if necessary, can be determined by a test coat. In order to optimise energy efficiency in summer thermal insulation, higher layer thicknesses are necessary depending on the climate and subsoil.

Cleaning the tools

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

Shades

PV-SolarPlus is only available in white.

Before processing, the colour must be checked.

Storage and transport

PV-SolarPlus store and transport 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

5; 12,5; 19 litres

Other container sizes on request.

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 express 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 appropriate 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 product improvement, 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© 2026