

TECHNICAL DATA SHEET **ThermoProtect**

Product Description

ThermoProtect is a ready-to-use façade coating based on reflective membrane technology.

Ingredients

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

Product Group / GIS Code

BSW20

ThermoProtect is a durable protective coating for almost all outdoor surfaces. Due to the special composition of ThermoProtect, there are a number of energetic applications in summer and winter thermal insulation.

Scope of application

Variably permeable to diffusion, high resistance to aggressive environmental influences such as smog and ozone, low emission, solvent-free, high UV and weather resistance, reflective, very high colour fastness, thermally reassuring. Regulating moisture on sorption/diffusion-capable substrate.

Product-specific properties

Variably permeable to diffusion, high resistance to aggressive environmental influences such as smog and ozone, low emission, solvent-free, high UV and weather resistance, reflective, very high colour fastness, thermally reassuring. Regulating moisture on sorption/diffusion-capable substrate. Material characteristics

sd values according to DIN 52616

Drying range: sd = 1.7

Wet area: sd = 0.7

Density: 1.05 kg/dm³ according to ISO 2811-1

Reaction to fire: C-s1, d0

Chemical resistance: on request

For RAL 9003:

'Solar reflection according to ASTM C1549-16 (2022): 0.851

Thermal emission according to C1371-15 (2022): 0.88

SRI according to ASTM E1980: 106.9

VOC Regulation (EC)

Limit value from 01.01.2010 for matt coating materials (product cat. c) for exterior walls made of mineral building materials = 40 g/l.

This product contains < 3 g/l of VOC.

Processing instructions

ThermoProtect can be applied to all load-bearing, mineral substrates, such as exterior plaster, organically bonded plasters and intact old paints. To ensure energetic properties, a diffusion-open substrate must be ensured.

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 coat, two coats of paint are necessary. ThermoProtect is set up ready for processing. If sprayers are used, the guidelines of the equipment 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 breaks 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 ThermoProtect is approx. 330 ml/m² for a double coat of paint on smooth, non-absorbent surfaces.

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 required depending on the climate and subsoil.

Cleaning the tools

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

Shades

ThermoProtect can be tinted in the NCS, RAL and ClimateCoating® Edition 1 ink systems.

Before processing, the colour must be checked.

Storage and transport

Store and transport ThermoProtect 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 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 SICCC 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. SICCC® 2020