

Technical Bulletin: **ThermoActive**

Product description

ThermoActive is a roof coating ready for use. It is based on the Reflective Membrane Technology.

Ingredients

polyacrylate- dispersion, zinc oxide, titanium dioxide, kaolin, 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

ThermoActive is a resistant protective coating suitable for use on almost all surfaces on the roof. The roof pitch must not go below 3%. The special composition of *ThermoActive* provides a wide range of energetic application areas for thermal shielding in summer and winter.

Product specific properties

Variable diffusion, high resistance to aggressive environmental influences such as smog and ozone, low-emissions, free of solvents, high UV- and weather resistant, reflective, very high colour resistance, waterproof, expandable, thermally comfortable.

Material data:

- sd-values according to DIN 52615
- dry area: sd = 0,58
- wet area: sd = 0,42
- density 1,04 kg/dm³ ISO 2811-1
- fire behaviour: C-s1, d0
- chemical resistance: available on request
- Sunlight reflection: 84% according to DIN 67507
- Total Solar Reflectance (TSR) to ASTM E903: 91,4%
- Solar Reflectance Index (SRI) to ASTM E 1980-11: 111,4
- Total Hemispherical Emittance (THE) to STM C 1371-04a(2010)e1: 88%
- Gloss: dull matt according to DIN ISO 2813

VOC Regulation (EC)

Limit value of 01.01.2010 for water based (Wb) coating material (Prod.-Cat. d) for wood, metal or polymer materials for buildings, components or decorative elements = 130 g/l.

This product contains < 7 g/l VOC.

Processing note

ThermoActive can be applied to all sound, clean, dry, rust-free and grease-free surfaces such as metals, synthetics, synthetic fibres and intact previously painted surfaces. A permeable surface is recommended to guarantee energetic features.

Substrate preparation

Synthetics:

analyse ability of adhesion

Metals:

depending on metal and strain, prime with *ClimateCoating® RustPrimer* or *ClimateCoating® ZincPrimer*

Non-workable previous coating:

depending on coating, remove by washing, acid cleaning or with high-pressure or hot steam cleaner

Adhesion-interfering surfaces:

wash, buck, grind

Strong absorbent mineral surfaces:

prime with *ClimateCoating® FixPlus*

Application

The product can be applied by brushing, paint roller or spraying method. For first application two coatings are required. *ThermoActive* is supplied ready for use. In case of application via spraying equipment, instructions of the equipment manufacturer must be followed. The product consistency for application on very rough surfaces or by use of spraying equipment can be regulated by adding little water. During application, it is important to maintain the air and object temperature +5°C. This applies equally to the drying period. Sufficient daylight promotes the drying of the UV-cross-linked binding agent. Stir with a stirring gear before application or after long interruptions of work.

Allow a drying period of 12 hours between two individual coats.

Consumption

The spreading capacity of *ThermoActive* is approximately 600 ml/m², calculated for two layers, on smooth surfaces of low porosity. Using embedding material, the spreading capacity rises to approximately 1000 ml/m², calculated for two layers. The spreading capacity will vary according to the structure and porosity of the surface. If in doubt, a small test area should be applied first. To optimize the energetic efficiency of thermal shielding in summer, a thicker coating layer may be necessary, depending on climate and surface.

Cleaning of tools

Rolls, brushes and spray equipment are to be washed out with water thoroughly immediately after usage.

Colours

ThermoActive can be tinted with the colour systems NCS, RAL and *ClimateCoating®* Edition 1.

Please check colour shade before application.

Storage and transport

ThermoActive should be stored and transported cool, but frost protected. Once opened, close containers firmly and apply as soon as possible. Storable from date of manufacture: 12 months.

Delivery form

5; 12,5; 19 litres

Differing pack sizes available on request.

Disposal

Do not empty into canalization, watercourses or the ground.

Only completely emptied containers should be disposed for recycling. Please turn part-used products to the collection point in charge.

Non-hazardous waste code according to EU-list of wastes: 080120

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.

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