

Technical Bulletin – TopShield

Product Description

TopShield is a roof coating ready for use. It is based on the thermal ceramic coating technology.

Ingredients

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

Product Group/ GIS-Code

Micro silicates, BSW10

Area of application

TopShield 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 TopShield provides a wide range of energetic application areas for thermal shielding in summer.

Product Properties

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

Material data

- sd-values according to DIN 52615
- dry area: sd = 1,3
- wet area: sd = 0,7
- density 1,06 kg/dm³ ISO 2811-1
- fire behavior: C-s1, d0
- chemical resistance: available on request

VOC ordinance (EG)

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.

Application information / Surface

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

Surface preparation

Synthetics:
analyze ability of adhesion

Metals:
depending on metal and strain, prime with ThermoShield RustPrimer or ThermoShield ZinkPrimer

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 ThermoShield FixPlus

Application

The product can be applied by brushing, paint roller or spraying method. For first application two coatings are required.

TopShield 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 TopShield 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

TopShield can be tinted with the color systems NCS, RAL and ThermoShield Edition 1.

Please check color shade before application.

Storage and Transport

TopShield 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.

Volume of Supply

12,5 liters
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

Safety 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 canalization, watercourses or the ground. Keep away from food, drinks and feeding stuff. Keep out of the reach of children. Protect surfaces not to be treated by taking appropriate measures. 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 due to product improvement. Before-mentioned information was identified by SICCCoatings 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 applications methods are beyond our control and therefore out of our responsibility. SICCCoatings 2018

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