

Technical Bulletin – Lumen

Product Description

ThermoShield Lumen is an internal coating ready to use. It is based on the thermal ceramic coating technology.

Ingredients

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

Product Group/ GIS-Code

Micro silicates, BSW10

Area of application

ThermoShield Lumen is a resistant coating suitable for almost all internal surfaces. Due to its special composition, ThermoShield Lumen ensures a better brightness balance and a higher luminous efficacy in rooms, even with dark colours.

Product Properties

Variably diffusible, free of gases and solvents, increases light reflection and scattering, high color stability, ductile, thermally soothing, moisture-regulating on sorption/diffusible substrates.

Material data

- sd-values according to DIN 52615
- dry area: sd = 1,7
- wet area: sd = 0,02
- density 1,14 kg/dm³ according to ISO 2811-1
- fire behavior: B-s1, d0
- chemical resistance: available on request
- gloss: 0,4 according to DIN ISO 2813
- wet abrasion resistance: class 3 according to DIN-EN 13300
- contrast relation- covering power: class 2 according to DIN-EN 13300
- emissivity: $\Sigma = 0,55$

VOC ordinance (EG)

Limit value from 01.01.2010 for matt coating material (Prod.-Cat. a) for interior walls and ceilings = 30 g/l.

This product contains < 3 g/l VOC.

Application information / Surface

ThermoShield Lumen can be applied to all stable, clean, dry, rust-free and grease-free surfaces such as new and old plasters, wallpapers, metal, plastics, synthetic fibres and intact old coatings. A permeable surface is recommended to guarantee energetic features.

Surface preparation

Synthetics:
check 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, high pressure resp. hot damp cleaner

Adhesion-interfering surfaces:
Wash off, leach on, grind on

Absorbent substrates:
prime with ThermoShield FixPlus

Application

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

ThermoShield Lumen is supplied ready for use. In case of application by 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 a small amount of water. During application, it is important to maintain the air and object temperature +5°C. This applies equally to the drying period.

Stir with a stirring gear before application or after long interruptions of work.

Allow a drying period of 6 hours between two individual coats.

Consumption

The consumption of ThermoShield Lumen is approximately 330 ml/m², calculated for two layers, on smooth surfaces of low porosity. The consumption will vary according to the structure and porosity of the surface. In if doubt, a small test area should be applied first. To optimize the energetically efficiency in the summerly heat protection there is a higher layer thickness required 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

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

Please check color shade before application.

Storage and Transport

ThermoShield Lumen 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

5 liters; 12,5 liters
Other container 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.

Waste code no.: 080120
according to the EU Waste Catalogue.

Safety Notice

The content of the technical bulletin shall not constitute a legal relationship. 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 SICC Coatings 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. SICC©2019

As of: 08/2019
SICC Coatings GmbH
Wackenbergstrasse 78-82
13156 Berlin / Germany
Tel.: +49 (0)30 500 19 6-0
Fax: +49 (0)30 500 19 6-20
E-Mail: info@sicc.de
www.sicc-coatings.com