

## Technical Bulletin: **Lumen**

### Product description

*Lumen* is an indoor coating ready to use. It is based on the Reflective Membrane Technology.

### Ingredients

polyacrylate-dispersion, 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

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

### Product specific properties

Variably diffusible, free of gases and solvents, increases light reflection and scattering, high colour 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 1,20 kg/dm<sup>3</sup> according to ISO 2811-1
- fire behaviour: 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 1 according to DIN-EN 13300
- emissivity:  $\Sigma = 0,55$

### VOC Regulation (EC)

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.

### Processing note

*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.

### Substrate preparation

#### Synthetics:

check 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, high pressure resp. hot damp cleaner

#### Adhesion-interfering surfaces:

Wash off, leach on, grind on

#### Absorbent substrates:

prime with *ClimateCoating® FixPlus*

### Application

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

*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 *Lumen* is approximately 330 ml/m<sup>2</sup>, calculated for two layers, on smooth surfaces of low porosity. The consumption 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 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

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

**Please check colour shade before application.**

### Storage and transport

*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.

### Delivery form

5; 12,5; 19 litres

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.

### 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. Before-mentioned information becomes invalid at release of a new technical bulletin 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 application methods are beyond our control and therefore out of our responsibility. SICC©2021