Alsicolor Silitec Thermobalance

Sol silicate facade paint with intelligent temperature regulation

AREAS OF APPLICATION

Dispersion silicate facade paint according to DIN 18363 sec. 2.4.1 for mineral and organic bound substrates. Natural algae and fungi prevention due to optimised moisture balance (Hydrobalance® effect).
Light colouring causes a more intense heating of the surface in sunlight and leads to an accelerated drying process after wetting (thermobalance effect).

PRODUCT PROPERTIES

- Temperature control tested by iLF Magdeburg (test report no. 160240)
- Colours with HBW
- Colours with HBW > 50 with solar absorbing properties for increased heating up and quicker drying brighter surfaces in sunlight (thermobalance effect)
- High level of natural protection against microbial infestation (e.g. algae and fungi) due to Hydrobalance® effect and intelligent temperature control
- Without biocides for film preservation
- High degree of alkali strength
- Extremely low soiling tendency due to sol silicate technology
- Reduction of potassium carbonate efflorescence by using high quality lithium waterglass
- Excellent non-chalking properties
- Photocatalytically active
- Highly water-vapour permeable
- Highly water-repellent
- Mineral matt
- Airless spraying possible
- Excellent adhesion to mineral substrates and old matt dispersion paint coats
- Climate-neutral production

TECHNICAL DATA

Binder base	Sol silicate (colloidal silica + lithium waterglass) (plus organic percentage < 5%)

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Classification in acc. with BFS data sheet 26:	Class A Pigment group 1 (for all colours in the alsecco Creativ-Color-System 2.0 marked with *) Pigment group 2 (for colours in the alsecco Creativ-Color-System 2.0 not marked with *, classification upon request)
Specific gravity	approx. 1,44 g/cm³
Diffusion-equivalent air-layer thickness	s_d < 0,01 m according to DIN EN ISO 7783 class V_1 (high) according to DIN EN 1062
Water permeability	w ≤ 0,1 kg/(m²$h^{1/2}$) according to DIN EN 1062 Class W_3 (low) according to DIN EN 1062
Radiancegrade	Matt, G3 according to DIN EN 1062
Dry layer thickness	100 - 200 µm, Class E3 according to DIN EN 1062
Particle size	< 100 µm, S1, fine according to DIN EN 1062
VOC value	EU limit value for the VOC content of this product (cat. A/c): 40 g/l (2010). This product contains < 10 g/l VOC.

APPLICATION INSTRUCTIONS

Preparation	Homogenise the material prior to application.
Substrate pre-treatment	All substrates must be dry, stable, clean and free of any residue, which can reduce adhesiveness. Prime highly absorbent substrates, which are to be reinforced, with impregnating primer Si or Hydro penetrating primer.
Mixing	Ready to use If necessary, adjust to a workable consistency with a max. of 5 % water.
Application	Apply Alsicolor Silitec Thermobalance in two steps by brushing, rolling or spraying. Apply the material wet-on-wet, to avoid seams. May be tinted up to LRV ≥ 10. For intensive or dark colours we recommend applying a base coat for full coverage in a suitable shade or tinting the top-coat render in line with the colour you want to achieve. Additional coats beyond the regular build-up may be required.
Consumption	approx. 125 - 150 ml per coat per m² Determine the precise material requirements by means of a trial coating on the object.
Information about the weather	There cannot be temperatures below + 8 °C during application and drying. Do not apply in direct sunlight.
Drying time	approx. 12 hours Dependent on temperature and relative humidity.
Cleaning of tools	In a fresh state with water.

Application by machine	Airless spraying application: Spraying angle: 50°; nozzle: 0.023 - 0.027" spray pressure: 150 - 180 bars; stir and sieve the paint well for airless spraying applications. Furthermore, please request special information regarding machine processing.

STORAGE

Shelf life in original sealed packaging of at least 1 year when kept cool and protected against frost.

PACKAGING INFORMATION

Colour	White and pigmented.
Packaging unit	PP bucket approx. 15 l

OTHER INFORMATION

Note on application:
Stains from copper components can result in brown colouring. Therefore, copper surfaces must be protected against oxidation.

This product is devised on a high quality level. Nevertheless, microbial infestation cannot be completely ruled out in the case of high biogenic potential. In this case, please consult a professional.

If dark colours have been applied, mechanical stress can cause lighter streaks to appear on the surface (writing effect). This is a product-specific characteristic (common to all matt façade paints) and does not have any bearing on the quality and functionality of the product.

If the substrate is dense and cool or if the drying process is delayed due to adverse weather conditions, the effect of moisture (rain, dew, mist) can cause additives to rise to the surface of the coating. The effect is dependent on the intensity of the colour. These additives are water-soluble and are automatically removed with sufficient water, e. g. in the course of further weather. This does not impair the quality of the dried coating.

Information on safety	The information provided in the current safety data sheet applies.
Transportation	Not a hazardous material
Giscode	M-SK01 1 K-silicate paints

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