



Power-SunTherm/Silicate

Biological & Energy Saving Exterior Coating

Exterior Silicate Base

according to DIN 18363

Reflects up to 95% short-wave infra-red radiation (IR-A radiation)

Product Description

Solvent-free, environmentally friendly, low odour and energy-saving exterior wall paint.

Power-Sun Therm/Silicate is a highly water vapour permeable, water-deflecting, solvent-free exterior wall paint with a silicate base, according to VOB Part C, DIN 18363, to be used on mineral external walls. Available in white or according to paint colour cards. The paint reflects IR-A radiation up to 95%, fills façade cracks, and creates a neutral surface as a result of IR-A reflection, which reduces algae and fungus infestations and cracks. Saves on energy costs to an as yet unspecified extent by deflecting heat in the summer due to high level of IR-A reflection. Fills cracks of up to 0.55 mm. Energy loss resulting from heat evaporation from damp walls is also reduced in the winter, which can lead to significant energy savings. When using dark full tones such as terracotta, this product can achieve reflection of up to 61%.

Use

Power-Sun Therm/Silicate is manufactured with a potassium silicate base and organic stabilisers, and can be used on silicate plaster, all mineral plasters, fixed and non-effervescent natural stone and limestone brickwork. Power-SunTherm Silicate is also ideal for the renovation of old silicate paintwork and plastering.

Base

Can be used on silicate plaster, all mineral plasters, fixed and non-effervescent natural stone and limestone brickwork, also on all other plaster.

Power-SunTherm Silicate is also ideal for the renovation of old paintwork and plastering

Preparation

A base coat of Power-Facade-DeepGround is always required.

Mixing time/mixing procedure

Power-SunTherm/Silicate should be mixed with 15% clear-water and must be mixed manually for 2 minutes before applying.

Preparation

Power-SunTherm Silicate is to be applied equally with a paint roller, bush or suitable spraying tool, e.g. airless. When using a spray tool, all filters must be removed and a can size of at least 0,79 mm is required. The surface must be dry, secure and free of dust and loose particles and separating agents. The property and surrounding temperature must not be below +5°C or over +45°C.

Due to the alkaline binding agent potassium silicate, nearby building components must be covered carefully. Do not use on surfaces, which contain cement.

Practical information

Power-Color paint systems for exterior walls are formulated in such a way that they provide the best security against mould and fungi due to its high IR-A reflection of 95%. If and to what extent mould and fungi is present depends in particular on the local conditions and the main environmental factors.

In cases of doubt concerning preparation, the base surface or constructive characteristics, seek advice!

Important

Due to the alkaline binding agent potassium silicate, nearby building components must be covered carefully. Stir the paint thoroughly with an electronic agitator for 2 mins. before use.

Do not use on surfaces, which contain cement. Do not mix with other types of material. Cover bordering construction parts well and protect them from the spray. Clean tools thoroughly with water after use. The minimum layer thickness of the paint is 0.25 mm.

Quality

The use of approved and continuously checked raw materials guarantees consistent good quality. The most modern manufacturing facilities provide consistent product characteristics.

Storage

Protect from frost. Can be stored for at least 12 months in the original sealed containers.

Form of delivery

In cans of 15 litres, in 15 litres on pallets of 24 cans.

Disposal

The containers are to be emptied completely and recycled.

Safety instructions

Standard anti-virus, bacteria, fungus and algae effect. Always read identification markings and product information before use.

Technical data

Drying time	In normal conditions (+20°C / 65% humidity), the drying time	is approx. 12 hours. Lower temperatures and higher humidity will extend the drying time.
Packaging		In cans of 15 litres on pallets of 24 cans.
Exterior use		Yes
Interior use		No
Water vapour permeability		High water vapour permeability (SD<0,07 m) according to DIN 52615
pH		13 + / -1
Binding agents	18363	Organic silicate paint according to DIN
Density		1,4 + / - 0,1 (lg / cm ³)
Whiteness		Brightness (white wheel) >=90%
Winter formulation		No
Opacity class		Contrast percentage (covering ability) >=99,5%
Brief product description		Power-SunTherm Silicate
Material use		Depending on the type and absorbability of the surface approx. 150 ml / m ² . Caution: Raw surfaces can increase quantity used. Precise amounts required are to be determined by applying to test areas! A minimum layer thickness: 0,25 mm with precise preparation of the base surface and cover paint.

The information in this brochure is based on our current technical knowledge and experiences. They do not release the user from the need to carry out their own tests and experiments when processing and using our product, due to the wide range of possible influences, and only act as general guidelines. A legally binding assurance of specific characteristics or suitability for a concrete purpose cannot be derived from this information. Any trademark rights and existing laws and provisions are to be observed by the user at all times at their own authority. All previous data sheets will lose their validity upon publication of this data sheet.

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