

SOLAMENT CLIMATE^E

SILICATE PAINT EXTERNAL

aerodurit[®] Putz- & Betontechnologie GmbH
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TECHNICAL DATA SHEET

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HEAT
REFLECTION
EFFECT

HIGH
DIFFUSIVITY

aerodurit[®] **SPECIALISED**

SOLAMENT CLIMATE^E

Advantages

aerodurit [®] system-compatible	✓
Strong heat reflection effect through thermal pigmentation	✓
High diffusivity	✓
Mould- and bacteria-resistant	✓
Regulates humidity and room climate	✓
Very supple, good coating properties	✓
Washable, acid- and light-resistant	✓

Special Applications

Facade paint	✓
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FORMS PART OF

aerodurit[®] **SPECIALISED**

AURORA

WL6 065 THERMAL INSULATION PLASTER SYSTEM

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aerodurit® SOLAMENT CLIMATE E is a mineral, solvent-free and water-based dispersion silicate paint compliant with DIN 18363 on a potassium silicate basis for exterior use (facade paint). Contains high-quality silicates as well as thermoinsulating and thermo-regulating pigments.

COMPOSITION

High-quality silicates as well as inorganic additives.

PROPERTIES

Highly breathable, excellent moisture- and climate-regulating properties, strong heat reflection effect, improves thermal insulation and retention values, water and dirt-repellent, environmentally friendly, washable, acid and light-resistant, very supple with good coating properties, easy to apply, mould- and bacteria-resistant, suitable for allergy sufferers.

APPLICATION

aerodurit® SOLAMENT CLIMATE E Silicate Paint is designed for use as a heavy duty preventive measure for adverse climatic conditions. It reflects the heat radiation in summer and thus reduces the temperature inside the building.

For professionally pretreated, solid, weatherproof mineral substrates such as plaster, concrete, aerated concrete, lime sandstone, plasterboard (primed), Fermacell etc. Suitable substrates: silicifiable masonry and plasters in compliance with DIN EN 998, silicifiable old coatings. Unsuitable substrates: plaster, lacquer layers, wood, metal, film-forming old coatings (e.g. varnishes). The guidelines of VOB, part C/DIN 18363, paragraph 3 and the respective BFS leaflets must be observed.

SUPPLY FORM

Trading Unit	Delivery Unit
5 l bucket	60 pcs./Euro pallet
15 l bucket	24 pcs./Euro pallet

PRODUCT YIELD

Undiluted per application from 300 ml / m², per litre 3-3.5 m² (depending on substrate structure and absorbency). The actual consumption can be determined by means of a test coat.

TECHNICAL DATA

Water absorption w24 (kg/m ² 24 h)	0.10
Water vapour permeability sd (m)	ca. 0.006 kg/m ² 24 h
Water vapour diffusion equivalents air layer thickness	ca. 0.05 m
Application temperature (ambient air, object and material)	+ 5 °C bis + 30 °C
VOC threshold value	Cat. A/cWb = 40 g/l (2010)
VOC maximum content	1 g/l
Grain grade in compliance with DIN EN ISO 2431	fein
Wet abrasion class in compliance with DIN EN 13300	class 3
Coating ability	class 2
Gloss in compliance with DIN EN ISO 2813	dull matt
PH value	> 11



PREPARATION AND MIXING

aerodurit® SOLAMENT CLIMATE E Silicate Paint can be applied directly after **thorough stirring**. If necessary, stir repeatedly during application. Can be diluted up to 5% with aerodurit® FIXATIVE F-1 special fixing agent or water.



COLOURING

White. Tint only with suitable tinting concentrates. Numerous factory-made colour tints derived from the NCS colour system are available.



NOTES AND PRECAUTIONS

Carefully cover the area around the surface to be coated. Wear gloves and safety goggles (not glasses). Avoid skin and eye contact. Remove splashes immediately with plenty of water. Clean tools thoroughly with water immediately after use. Do not use in direct sunlight, rain, strong wind, when there is a risk of frost or a relative humidity above 80 %. Always use paint from the same batch to achieve a uniform appearance. Do not mix with other colours.

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SURFACE PRETREATMENT

Newly plastered surfaces must be completely cured, respectively carbonated (e.g. lime plasters, see technical data sheet manufacturer). Cracks in the substrate must be professionally repaired beforehand. All substrates must be clean, dry, stable, free of dust, blooming and separating agents. Always remove dirt, film-forming release agents such as mould wax/oils or sintered layers. Substrates that cannot be consolidated or provide insufficient adhesion must be completely removed. Chalking, crumbly and absorbent substrates have to be stabilised by suitable measures (use aerodurit[®] FIXATIVE F-1 special fixing agent, not deeppenetrating primer). If in doubt, apply a trial coat.



PROCESSING

Apply aerodurit[®] SOLAMENT CLIMATE E crosswise and quickly to the wall. Ensure uniformity in the application and distribution of the material (silicate paint coating technique) in order to achieve the layer thickness to ensure the functionality. Apply the paint with a roller, brush, paintbrush, surface brush or spray gun (suitable for silicate paint). For airless spraying, if possible, attach a filter in front of the intake manifold. Two coats are necessary (wet-on-wet). Dry and repaintable after ca. 4 to 5 hours (at +20 °C and 65 % relative humidity).

Protect freshly painted surfaces from direct sunlight, driving rain, frost etc.

STORAGE

Store weatherproof and frost-free on wooden pallets in a cool, dry room. Reseal opened packaging immediately. Closed packaging has a shelf life of 8 months from the production date under proper storage conditions. Keep out of the reach of children.

DISPOSAL

Allow paint residues that are no longer required to dry completely and dispose of them like household waste or hand them over for disposal. Hand over liquid material for disposal. Waste code no.: 08 01 12. Local regulations are to be observed and complied with.

For further details please refer to the safety data sheet.

The specifications contained in this technical data sheet are based on years of proven experience by the company aerodurit[®]. A liability for the general validity of the individual data and recommendations, must, however be ruled out due to the varying processing conditions, as the application and processing methods are beyond our control.

The general rules of construction engineering must be adhered to. The data of internal or third-party monitoring may vary on the construction site due to processing methods, intensity of the mixing, technical specifications of the machines, adhesion of the substrate, application thickness, environmental influences, and the age of the material (refer to »Forschungsgemeinschaft Kalk und Mörtel e.V.« (research community lime and mortar), Report on norms, practical experience and theory, »26th Aachener Baustofftag«).

Previous data sheets become void through the publication of this data sheet. Stay up-to-date! Refer to www.aerodurit.com for the most current version of our data sheets.