

CALSOL NATURE ^{iE}

CLIMATIC LIMEWASH INTERIOR AND EXTERIOR

TECHNICAL DATA SHEET

As of: 29 July 2020
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aerodurit[®] eco⁺

CALSOL NATURE ^{iE}

CLIMATIC LIMEWASH

REGULATES
 INDOOR
 CLIMATE

HEAT
 REFLECTION
 EFFECT

HIGH
 DIFFUSIVITY

Advantages	
aerodurit [®] system-compatible	✓
Heat reflection effect through thermal pigmentation	✓
Thermo-insulating, -regulating	✓
Non-chalking	✓
Regulates humidity and room climate	✓
Without organic additives	✓
High diffusivity	✓
Natural, biological, sustainable	✓
Weatherproof	✓
Special Applications	
Suitable for listed buildings	✓
Interior and exterior paint	✓

FORMS PART OF

aerodurit[®] HISTORICAL

PHOENIX

THERMAL INSULATION PLASTER SYSTEM



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aerodurit® CALSOL NATURE iE Climatic Limewash is a mineral product of highest biological quality for indoor and outdoor use. It contains high-quality lime and thermo-insulating and -regulating pigments. Very well suited for old and new buildings as well as especially for historical monument restoration.

COMPOSITION

White hydrated lime, limestone powder, TiO₂, linseed oil, water, suspended lime, kaolin and inorganic aerodurit® additives.

PROPERTIES

Highly breathable with capillary function, non-chalking, high pH-value, excellent moisture- and climate-regulating properties, strong heat reflection effect, improves thermal insulation and retention values, environmentally friendly, weather-resistant (due to hydro activity, the coating becomes increasingly robust), very supple with good coating properties, easy to apply, mould and bacteria resistant.

APPLICATION

aerodurit® CALSOL NATURE iE Climatic Limewash is primarily designed for use as a heavy duty preventive measure for adverse climatic conditions and room climate (rooms with high humidity such as utility rooms, kitchens, bathrooms), as well as for historical buildings, cellars, agricultural spaces and **renovations in conjunction to monument protection**. For mineral substrates such as plaster, concrete, wood and sound old coatings as well as substrates suitable for emulsion paints (plasterboard, Fermacell etc.). The guidelines of VOB, part C / DIN 18363, paragraph 3 and the respective BFS leaflets must be observed.

SUPPLY FORM

Trading Unit	Delivery Unit
4 l bucket (5 kg)	85 pcs. / Euro pallet
8 l bucket (10 kg)	40 pcs. / Euro pallet
16 l bucket (20 kg)	24 pcs. / Euro pallet

PRODUCT YIELD

Undiluted per application from 140 g–280 g / m², per litre 6–7 m² (depending on substrate structure and absorbency). The actual consumption can be determined by means of a test coat.

TECHNICAL DATA

Water absorption w ₂₄ (kg/m ² 24 h)	0.1 kg m ² h ^{0.5}
Water vapour permeability sd (m)	0.01 m
Application temperature (ambient air, object and material)	+ 5 °C to + 30 °C
VOC content	None
Grain grade in compliance with DIN EN ISO 2431	Fine
Wet abrasion class in compliance with DIN EN 13300	Class 3
Coating ability	Class 2
Gloss in compliance with DIN EN ISO 2813	Matt
PH value	13
Fire resistance	A1 / non-combustible



PREPARATION AND MIXING

aerodurit® CALSOL NATURE iE Climatic Limewash can be applied directly after **thorough stirring**. If necessary, stir repeatedly during application. Can be diluted up to 5 % with silicate fixative or water. Can be diluted up to 20 % with fresh water for use as a primer (for absorbent substrates – see Substrate Preparation).



COLOURING

White. Can be tinted with water-soluble, lime-proof tinting and colourants. Numerous factory-made colour tints derived from the NCS colour system are available.



NOTES AND PRECAUTIONS

Caution! The binding agent suspended lime is alkaline and has a caustic effect when wet. 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

Cracks in the substrate must be professionally repaired beforehand. All substrates must be clean, dry, stable, free of dust, blooming and separating agents. Remove sinter skin. Substrates that cannot be consolidated or provide insufficient adhesion must be completely removed. Crumbly and absorbent substrates have to be stabilised by suitable measures (apply a diluted primer coat with aerodurit® CALSOL NATURE iE – see Mixture). If in doubt, apply a trial coat.



PROCESSING

Ensure uniformity in the application and distribution of the material in order to achieve the layer thickness to ensure the functionality. Apply the paint with roller, brush or spray gun. For airless spraying, if possible, attach a filter in front of the intake manifold (nozzle = 0.025–0.031, spraying angle = 50 °). Two coats are necessary: First coat diluted up to 20 %. Second coat undiluted. Dry and re-coatable after ca. 24 hours (at +20 °C and 65 % rel. humidity). The drying process may vary depending on the absorbency and humidity of the substrate as well as the ambient conditions. aerodurit® CALSOL NATURE iE may dry out irregularly and patchy, which is not a quality defect but a characteristic of limewash.

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.