



LONG-TERM **FACADE PROTECTION**

TECHNICAL DATA SHEET

Pure acrylate dispersion facade coating for long-term protection against algae and fungal growth on highly weather-exposed exterior facades.

RESIST

PROPERTIES

erstoalgae Resist is a highly weather-resistant pure acrylate dispersion facade coating for load-bearing, professionally prepared exterior substrates such as masonry, render/plaster, concrete, fibre-cement boards and suitable existing coating systems.

The coating has been developed for facade surfaces exposed to increased stress caused by moisture, wind-driven rain, wind, high humidity, salt-laden air and demanding atmospheric influences. It is particularly suitable as a resistant finishing coat on synthetic resin renders and for highly weathered and exposed facade surfaces.

The coating combines:

- high water repellency
- good water vapour permeability
- carbonation-inhibiting properties
- high UV and weather resistance
- resistant surface quality
- long-term protective effect against algae and fungal growth

Due to its thixotropic formulation, estoalgae Resist can be applied like a conventional facade paint. The coating is applied directly to the professionally prepared and suitably primed substrate.

After drying, estoalgae Resist forms a resistant, strongly water-repellent and vapour-permeable protective layer with long-term protective effect against algae and fungal growth as well as against weather-related and environmental influences.

Product differentiation:

erstoalgae Resist is the resistant pure acrylate variant within the estoalgae product line. Compared with estoalgae Balance, estoalgae Resist has lower water vapour permeability and no pronounced water-beading effect. However, it is specifically designed for high durability, wind-driven rain exposure and strong water repellency.

FEATURES & BENEFITS

erstoalgae Resist is a highly weather-resistant pure acrylate dispersion facade coating with high water repellency, good water vapour permeability and resistant surface quality.

The coating has been developed for highly stressed exterior facades and provides long-term protection against algae and fungal growth as well as against weather-related and environmental influences.

The coating is characterised by:

- long-term protection against algae and fungal growth
- high water repellency
- good water vapour permeability
- carbonation-inhibiting properties
- high UV and weather resistance
- resistance to aggressive atmospheric influences, e.g. acid rain
- wind-driven rain resistance
- resistant, dirt-repellent surface properties
- cleanable and scrub-resistant surface
- solvent-free formulation
- silver ion-free composition
- nanoparticle-free composition
- high opacity
- high wet abrasion resistance
- matt surface finish
- alkali-resistant and ageing-resistant coating quality
- low-stress film formation
- very easy application due to thixotropic formulation
- suitable as a resistant finishing coat on synthetic resin renders
- suitable for highly weather-exposed facade surfaces

Colour shade: White. Tinting with suitable quality tinting colours is possible in accordance with the manufacturer's instructions.

Weather-resistant according to VOB/C, DIN 18363, provided that the coating is applied to a suitable, professionally prepared substrate in accordance with the technical specifications.

SUBSTRATE PREPARATION

Suitable exterior substrates include in particular:

- concrete surfaces
- mineral renders/plasters
- masonry
- fibre-cement boards
- suitable existing coating systems
- other load-bearing facade surfaces

Before application, the substrate must be load-bearing, firm, dry, clean and free from adhesion-reducing substances.

In particular, the following must be removed:

- algae and fungal growth
- moss and organic deposits
- loose render, mortar or facade components
- dust, dirt and other contaminants
- non-load-bearing existing coatings
- separating substances such as oil, grease or comparable residues

Depending on substrate condition and exposure level, suitable cleaning methods may include:

- high-pressure cleaning
- soft-wash process
- sand or granulate blasting
- comparable professional cleaning methods

The load-bearing capacity, adhesion and coating compatibility of the substrate must be checked before starting the work. For critical, unknown or already coated substrates, the creation of a test area is recommended.

After cleaning, the substrate must be allowed to dry sufficiently. A suitable hydrosol deep primer must then be applied to consolidate the substrate and regulate its absorption behaviour.

After the primer has dried, the absorption behaviour of the substrate must be checked. Liquids must no longer be absorbed rapidly into the substrate.

If the surface remains highly absorbent, an additional primer coat is required until liquid absorption is only moderate to slow, usually within approx. 5–10 minutes.

For all coating work, a dry, firm, clean and load-bearing substrate is required. The applicable requirements of VOB/C, in particular DIN 18363, Section 3.1.1, must be observed.

APPLICATION

erstoalgae Resist is supplied ready for use and must be stirred thoroughly before application.

Application can be carried out by:

- roller
- brush
- airless spraying

After professional substrate preparation and suitable priming, erstoalgae Resist may be diluted with up to 10% water for the base coat, provided this is approved by the manufacturer for the respective substrate.

At least one undiluted finishing coat of erstoalgae Resist must then be applied.

For highly weather-exposed facades, high wind-driven rain exposure, salt-laden air, high humidity or demanding atmospheric influences, an additional finishing coat may be required depending on substrate condition and project-specific requirements.

Sufficient drying time must be observed between individual application steps. The coating may only be applied under suitable weather conditions and onto a dry, firm, load-bearing and professionally prepared substrate.

Before application, only the required quantity of material must be poured into a separate clean working container. Material that has come into contact with brushes, rollers, spray equipment or other tools must be used promptly and must not be returned to the original container.

CLEANING OF EQUIPMENT

Clean tools and equipment with water immediately after use.



AREAS OF APPLICATION

erstoalgae Resist is suitable as a long-term protective coating for exterior facades with increased weather, moisture and environmental exposure as well as an increased risk of algae and fungal growth.

Typical areas of application include:

- new and existing buildings with highly stressed facade surfaces
- facades in moisture-exposed, shaded or poorly drying locations
- facades near green areas, trees, vegetation or bodies of water
- coastal and maritime locations with salt-laden air, high humidity and wind-driven rain exposure
- facades exposed to high stress from wind, rain and changing weather conditions
- highly weathered facades on exposed building elevations
- renovation projects with increased moisture or biological growth exposure
- historic buildings and sensitive facade structures, subject to project-specific assessment and approval

The coating is particularly suitable:

- under high wind-driven rain exposure
- under demanding atmospheric loads
- for facade surfaces with increased exposure to carbon dioxide, sulphur dioxide or acid rain
- to support a resistant, water-repellent facade surface
- for the long-term reduction of the risk of renewed algae and fungal growth on suitable facade surfaces

The overcoatability of existing coatings and the suitability of the substrate must be assessed on a project-specific basis. For critical or unknown coating systems, the creation of a test area is recommended.

PROTECTION & SAFETY

erstoalgae Resist is solvent-free and must only be used in accordance with the information provided in this Technical Data Sheet, the product labelling and the Safety Data Sheet.

The product must be applied in its original condition. Mixing with other products or non-approved dilution is not permitted, as this may impair the warranted product properties.

Permitted exceptions according to the manufacturer's instructions:

- dilution with up to 10% water for the base coat, provided this is approved for the respective substrate
- suitable Mixol tinting concentrates up to a maximum of 5% for pastel shades, provided they are approved by the manufacturer

Ensure adequate ventilation during application and drying. Do not eat, drink or smoke during application. Suitable protective measures must be taken according to the application situation.

When applying by airless spraying, wearing suitable respiratory protection is recommended.

Avoid contact with skin and eyes. In case of skin contact, wash with water and soap.

In case of eye contact, rinse the eyes thoroughly with running water for several minutes while keeping the eyelids open.

In case of ingestion or persistent symptoms, seek medical advice.

Keep out of reach of children.

erstoalgae Resist is free from:

- silver ions
- nanoparticles
- solvents

Remaining material may only be stored tightly sealed in the original container if it has not come into contact with brushes, rollers, spray equipment or other tools.

Contaminated material must be used promptly and must not be returned to the original container.

The information in this Technical Data Sheet reflects the current state of our technical knowledge. Due to the wide variety of possible substrates, project conditions and application parameters, no general liability claims can be derived from this information.

Observe the Technical Data Sheet, Safety Data Sheet and product labelling.

Use biocidal products carefully. Always read the label and product information before use.

INFORMATION FOR ALLERGY SUFFERERS ACCORDING TO EUH208

Contains 1,2-benzisothiazol-3(2H)-one (BIT), reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (CIT/MIT), and zinc pyrithione (ZnPT). May produce an allergic reaction.

ENVIRONMENTAL PROTECTION MEASURES

Do not allow the product to enter drains, surface waters or soil.

DISPOSAL INFORMATION

Only completely emptied, brush-clean containers should be sent for recycling.

Liquid material residues, uncured paint residues and contaminated containers must be disposed of in accordance with local official regulations.

Dried material residues may, provided they do not contain hazardous substances, be disposed of under AVV waste code 08 01 12 "waste paint and varnish other than those mentioned in 08 01 11".

Paint and varnish waste containing organic solvents or other hazardous substances must be disposed of under AVV waste code 08 01 11* "waste paint and varnish containing organic solvents or other hazardous substances".

The specific classification must be checked on the basis of the current Safety Data Sheet and the applicable regional disposal regulations.

LABELLING

EUH208: Contains 1,2-benzisothiazol-3(2H)-one (BIT), reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (CIT/MIT), and zinc pyrithione (ZnPT). May produce an allergic reaction.

If classified as hazardous to the aquatic environment according to the current Safety Data Sheet:

H412: Harmful to aquatic life with long lasting effects.

P273: Avoid release to the environment.

P501: Dispose of contents/container in accordance with local/regional/national regulations.

KEY DATA

GISCODE: M-DF02

Product category according to ChemVOCFarbV:

Category c, Wb – coatings for exterior walls of mineral building materials.

EU limit value for this product:

40 g/l VOC (2010). This product contains max. 20 g/l VOC.

Hazardous substance, transport and storage classifications must be taken from the current Safety Data Sheet.

TECHNICAL DATA

Property	Value
Product name	erstalgae Resist
Product type	Pure acrylate dispersion facade coating
Binder	Pure acrylate
Surface finish	Matt
Colour	High-opacity white
Opacity	Class 1
Wet abrasion resistance	Class 1
Water repellency	High
Water-beading effect	No pronounced water-beading effect
Water vapour permeability	Vapour-permeable, lower than erstalgae Balance
Viscosity	Thixotropic
Application temperature	+5 °C to +30 °C
Drying	Surface-dry after approx. 3 hours at +20 °C and 65% relative humidity
Recoatable	After approx. 8 hours at +20 °C and 65% relative humidity
Fully cured	After approx. 24 hours
Coverage	Approx. 8 m ² /l, depending on substrate condition, absorbency, application method and layer thickness
Odour	Nearly odourless in liquid state, neutral after drying
Shelf life	Approx. 12 months if stored frost-free
Packaging	Plastic container

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