

ersto PLAST

WATER-RESISTANT **RESTORATION RENDER**

TECHNICAL DATA SHEET

Functional mineral restoration render for
moisture and salt regulation in masonry

PRODUCT DESCRIPTION

erstoplast is a mineral, cement-based functional render designed for the renovation and stabilisation of moisture- and salt-affected substrates.

The system has been developed for:

- moisture-affected masonry
- salt-contaminated building components
- basement and plinth areas
- water-exposed surfaces
- technical and industrial applications.

erstoplast combines:

- high water resistance
- water vapour permeability
- capillary-active moisture regulation
- and high mechanical durability.

The system does not function as a conventional rigid waterproofing membrane, but as a functional mineral regulating and protective layer for the long-term stabilisation of moisture-exposed building components.

The coating system is suitable for interior and exterior applications as well as mineral substrates exposed to elevated moisture loads.

PROPERTIES

- Mineral, cement-based functional render
- Water-resistant, even under elevated moisture exposure
- Vapour-permeable and breathable
- Capillary-active moisture regulation
- Suitable for salt-contaminated substrates
- High adhesion and compressive strength
- Suitable for positive and negative water exposure
- Good mechanical durability
- Suitable for interior and exterior use
- Environmentally friendly and VOC-free
- Suitable for technical and building-physics renovation concepts
- Compatible with ERST system coatings
- Long-term stable mineral system technology

FUNCTIONAL PRINCIPLE

erstoplast is based on a vapour-permeable and capillary-active material structure.

The specialised mineral matrix supports:

- regulation of moisture within the building component
- controlled release of water vapour
- stabilisation of moisture-exposed substrates
- and reduction of damaging salt loads.

The water-resistant structure reduces the penetration of liquid moisture without significantly impairing the vapour permeability of the system.

Actual performance depends on:

- substrate
- moisture exposure
- salt content
- coating thickness
- building component configuration
- and environmental conditions.

SURFACE PREPARATION

The substrate must be:

- structurally sound
- suitable for mineral applications
- free from loose particles
- and free from dust, oil and grease.

Salt efflorescence, unstable existing coatings & non-load-bearing layers must be professionally removed.

Highly absorbent substrates should be pre-wetted.

Standing water must be avoided.

Suitable substrates include:

- concrete
- mineral renders
- brick masonry
- basement walls
- plinth areas
- moisture-exposed mineral surfaces.

The load-bearing capacity of existing coatings must be assessed on a project-specific basis.

Test areas are recommended.

APPLICATION

erstoplast is mixed with clean water in accordance with the technical specifications

Mixing Ratio

- approx. 0.16–0.235 litres of water per kg of material
- approx. 4.0–4.7 litres of water per 25 kg unit.

Important Note

Always add the material to the water — never the reverse.

MIXING TIME

Hand mixer:

- mix for approx. 5 minutes
- allow approx. 5 minutes resting time
- then remix for approx. 1 minute.

Machine mixing:

- approx. 10 minutes.

Application may be carried out:

- manually
- or by machine.

Recommended coating thickness:

- approx. 10–20 mm per application layer.

Depending on substrate condition and exposure, a multi-layer application may be required.

Application Temperature

- Substrate and ambient temperature: +5 °C to +30 °C
- Do not apply to frozen substrates.

Working Time

- approx. 3–4 hours.

FIBREGLASS REINFORCEMENT MESH

For additional stabilisation, the use of alkali-resistant fibreglass reinforcement mesh is recommended:

- mesh size: approx. 5 × 5 mm
- surface weight: approx. 140–145 g/m².

APPLICATION NOTES

The actual performance of the system depends on:

- type of damage
- moisture exposure
- substrate condition
- building component configuration
- application method
- and coating thickness.

For areas exposed to severe water loads or structurally critical conditions, project-specific planning is recommended.

The stated values for water-pressure resistance and vapour diffusion behaviour are based on laboratory conditions and do not constitute guaranteed properties for every installation situation.

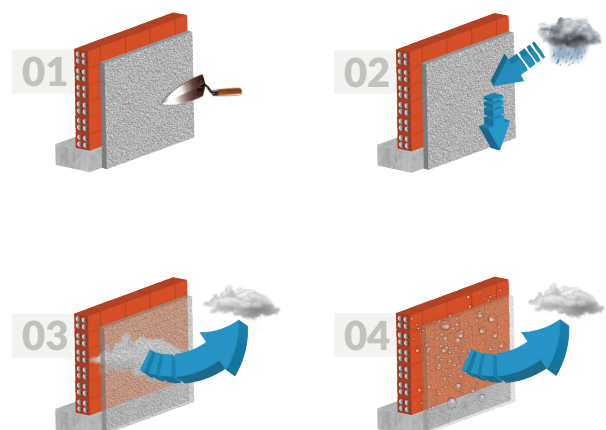
AREAS OF APPLICATION

erstoplast is suitable for:

- basement walls
- plinth areas
- moisture-exposed wall surfaces
- renovation projects
- old and new buildings
- technical rooms
- underground car parks
- balconies and terraces
- water-exposed mineral surfaces

Typical application areas:

- moisture- and salt-contaminated masonry
- interior and exterior surfaces
- technical and commercial areas
- residential and commercial properties
- industrial and infrastructure projects.



TECHNICAL DATA

Property	Value
Base	Cement-based mineral special formulation
Colour	Grey
Delivery form	Powder
Grain size	Approx. 0.063–2 mm
Dry density	Approx. 1680 kg/m ³
Compressive strength	Approx. 3.40 N/mm ²
Water vapour diffusion resistance	Approx. 12.40
Water resistance	Tested up to approx. 1 bar water pressure
Application method	Manual or machine application
Coating thickness	Approx. 10–20 mm
Consumption	Approx. 12 kg/m ² at 10 mm layer thickness
Working time	Approx. 3–4 hours
Shelf life	Minimum 18 months, frost-free storage
Packaging	25 kg containers / silo
CE marking	SK 12/06/0052/1306



PROTECTION & SAFETY

erstoplast is a mineral, cement-based system product.

Suitable protective measures must be observed during application and curing.

The product must only be used in accordance with the application instructions.

Fresh material reacts alkaline.

Store remaining material dry in the original packaging and protect from moisture.

Keep out of reach of children.

The information provided reflects the current state of technical knowledge. Due to varying substrates, project conditions and application methods, no liability claims may be derived from this information.

Observe the Technical Data Sheet & Safety Data Sheet.

CLEANING OF EQUIPMENT

Clean tools and equipment immediately after use with water.

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