

PRODUCT DESCRIPTION

erstoshield is a biocide-free formulated long-term component for the preventive treatment of cleaned surfaces as well as critical moisture, edge, connection, detail and problem zones within demanding interior spaces, technical areas and hygiene-sensitive environments.

The product has been developed for applications in which moisture, condensation, porous surfaces, organic residues and hard-to-reach locations can promote recurring microbiological contamination.

erstoshield supports the formation of a microbe-inhibiting protective area and contributes to the long-term stabilisation of hygiene-sensitive surfaces.

FUNCTION WITHIN THE ersto HYGIENE SYSTEM

erstoshield is the long-term inhibition component of the ersto Hygiene System.

After cleaning with erstoclean, erstoshield is applied to suitable surfaces as a preventive film former.

The product is particularly suitable for:

- critical moisture zones
- edge and connection areas
- transition areas
- joint and detail zones
- porous or permanently stressed surfaces
- hard-to-reach areas
- recurrently stressed surfaces
- areas with increased prevention requirements

erstosan can be used additionally for extensive or hard-to-reach areas depending on the target area.

AREAS OF APPLICATION

erstoshield is intended for professional prevention applications in demanding interior, technical and hygiene-sensitive areas outside the ASPEREX target markets.

Suitable areas of application include in particular:

- interior spaces
- technical areas
- sanitary, moisture-exposed, technical and hygiene-sensitive areas
- air-conditioning, ventilation and air circulation systems, e.g. in buildings, installations and vehicles
- critical moisture, edge, connection, joint and detail zones
- gastronomy and hospitality
- veterinary practices
- physiotherapy
- medical practices, clinics and comparable hygiene-sensitive facilities
- basements, ancillary rooms and moisture-exposed rooms
- wall, ceiling and suitable floor areas
- commercial interior areas
- B2B and B2C applications with increased prevention requirements

MODE OF ACTION

erstoshield is based on a biocide-free, biophysical mode of action using special chitosan biopolymer complexes.

On suitable surfaces, a film-forming biopolymer complex is formed, which can bind microorganisms on the surface and inhibit their mobility and ability to reproduce.

The ersto mode of action is described as a non-biocidal HYDROSORB mechanism.

The application supports preventive surface stabilisation without relying on aggressive oxidative chemistry or classic biocidal mechanisms of action.

Depending on the pathogen load and stress on the surface, the treatment can support inhibition over a period of 1 to 6 months.

PRODUCT PROPERTIES

- biocide-free formulated long-term component
- sustainable mould and microbe inhibition
- creeping product structure
- suitable for critical moisture and problem zones
- microbe-inhibiting protective film technology
- biophysical mode of action
- chitosan biopolymer complexes
- odour-neutral after application
- non-perfumed
- hypoallergenic
- biodegradable
- non-hazardous to water
- 100% organic active-ingredient basis
- development and production in Germany

TECHNICAL KEY DATA

Property	Specification
Product name	erstoshield
Product type	preventive gel / emulsion
Physical state	liquid / emulsion according to confirmed product specification
Appearance	cloudy / beige-yellow / orange
Odour	characteristic, without long-lasting odour
pH value	3.0–4.5
Viscosity at 25 °C	0.8–2.0 mPas
Water solubility	fully miscible
Density	according to current product and safety data sheet specification
Flash point	not applicable
Storage class	12 – non-combustible liquids
Water hazard classification	NWG – non-hazardous to water according to AwSV
Transport	not dangerous goods within the meaning of transport regulations
Shelf life	24 months in unopened original container
Storage temperature	5 °C to 35 °C

CONSUMPTION

The guideline consumption is: approx 50 - 100ml/m²

Actual consumption may depend on:

- surface structure
- absorbency of the substrate
- porosity
- contamination situation
- desired treatment intensity
- application thickness
- application method

The consumption value must be checked on an object-specific basis, particularly on absorbent, porous, heavily stressed or recurrently stressed surfaces.

SUBSTRATE and PRELIMINARY TESTING

The surfaces to be treated must be clean and suitable for preventive treatment.

Before large-area application, a test area must be prepared in an inconspicuous location.

The following in particular must be checked:

- material compatibility
- visual change
- surface reaction
- residue formation
- drying behaviour
- suitability for the intended use & hygiene situation

Sensitive materials, coated surfaces & visually relevant surfaces must be assessed on an object-specific basis.

APPLICATION INSTRUCTIONS AND OCCUPATIONAL SAFETY

The information in the current safety data sheet must be observed during application.

General notes:

- avoid contact with eyes
- do not eat, drink or smoke while working
- ensure adequate ventilation
- wear suitable protective clothing
- wear tight-fitting safety goggles when decanting and transferring
- wear suitable protective gloves
- close containers tightly after removing product

In the event of an accident, feeling unwell, eye contact or ingestion, observe the instructions in the safety data sheet.

APPLICATION

- i. i. Thoroughly clean the surface with **erstoclean**.
- ii. Wipe the surface dry or allow it to dry sufficiently.
- iii. Pour **erstoshield** into a suitable application tray.
- iv. Apply thinly to the corresponding surface using a roller or brush.
- v. Allow the product to penetrate and dry.
- vi. After sufficient initial drying, the treated surface can be used again in accordance with the object-specific requirements.

The application can be carried out directly after cleaning, provided the surface has first been wiped dry and is suitable for further treatment.

SYSTEM COMBINATION

erstoshield can be used:

- after cleaning with **erstoclean**
- additionally to **erstosan**
- for targeted treatment of critical zones
- as part of a regular hygiene and prevention concept

The specific order of **erstosan** / **erstoshield** depends on the target area, surface and application situation.

APPLICATION IN CRITICAL ZONES

erstoshield is particularly suitable for areas with increased contamination, recurring moisture exposure or difficult accessibility.

These include in particular:

- moisture zones
- edge and connection areas
- transition areas
- joint areas
- detail zones
- porous surfaces
- permanently stressed surfaces
- recurringly stressed surfaces

In areas that are not accessible or are only difficult to access, **erstosan** can additionally be sprayed or fogged.

PACKAGING

erstoshield is available as:

- 5,000 ml pouch canister
- 100 litre wide-neck drum

STORAGE

- store in a cool, dry and well-ventilated place
- storage temperature: 5 °C to 35 °C
- protect from frost
- protect from direct sunlight and excessive heat
- keep container tightly closed
- shelf life in unopened original container: 24 months

DISPOSAL

Dispose of product residues, cleaning fluids and packaging in accordance with the applicable official regulations. Observe the information in the current safety data sheet.

NOTES

This Technical Data Sheet describes the intended technical use of the product. It does not replace the safety data sheet and does not release the user from the obligation to check substrates, operational requirements, hygiene specifications and material compatibility on an object-specific basis.



CONTACT

ERST



ERST GmbH
Aiterhofener Str. 4
94330 Salching, Germany
+49 9426 76 33 033
info@erst.de
www.erst.de

