



ASPEREX PREVENTIVE GEL FORTE

TECHNICAL DATA SHEET

Biocide-free formulated long-lasting gel for critical moisture and problem zones in hygiene-sensitive production areas

Product Line	ASPEREX
Supplier	ERST GmbH

ASPEREX Preventive Fluid Forte may be used additionally for large-area or difficult-to-access areas, depending on the target area.

PRODUCT DESCRIPTION

ASPEREX Preventive Gel Forte is a biocide-free formulated long-lasting gel for the preventive treatment of cleaned surfaces as well as critical moisture, edge, junction, detail and problem zones within the designated production and operational areas.

The product has been developed for bakeries, food manufacturing and food processing facilities, as well as feed production facilities, where moisture, condensation, porous surfaces, organic residues and difficult-to-access areas may promote recurring microbiological contamination.

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

FUNCTION WITHIN THE ASPEREX SYSTEM

ASPEREX Preventive Gel Forte is the long-term inhibition component within the ASPEREX product range.

After cleaning with ASPEREX Universal Cleaner Forte, the gel is applied to suitable surfaces as a preventive film-forming treatment.

The product is particularly suitable for:

- critical moisture zones
- edge and junction areas in production environments
- transition areas
- joint and detail zones
- porous or permanently stressed surfaces
- difficult-to-access areas within the designated facilities
- repeatedly stressed operational surfaces

AREAS OF APPLICATION

ASPEREX Preventive Gel Forte is intended for professional preventive applications in:

- bakeries and bakery operations
- food manufacturing facilities
- food processing facilities
- feed production facilities
- hygiene-sensitive production and auxiliary areas
- fermentation, storage, refrigeration, washing and cleaning areas within the above-mentioned facilities
- critical moisture, edge, junction, joint and detail zones within the above-mentioned facilities

MODE OF ACTION

ASPEREX Preventive Gel Forte is based on a biocide-free, biophysical mode of action using specific chitosan biopolymer complexes.

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

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

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

Depending on the microbial load and surface exposure, the treatment may support inhibition for a period of 1 to 6 months.

PRODUCT PROPERTIES

- biocide-free formulated long-lasting gel
- long-lasting mould and microbe inhibition
- creeping gel structure
- suitable for critical moisture and problem zones within the designated production areas
- microbe-inhibiting protective film technology
- biophysical mode of action
- chitosan biopolymer complexes
- odour-neutral after application
- non-perfumed
- hypoallergenic
- biodegradable
- not hazardous to water
- based on 100% organic active substances
- developed and produced in Germany

TECHNICAL DATA

Property	Specification
Product name	ASPEREX Preventive Gel Forte
Product type	Preventive gel / emulsion
Physical state	Liquid / emulsion according to confirmed product specification
Appearance	Cloudy / beige-yellow / orange
Odour	Characteristic, no 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 SDS information
Flash point	Not applicable
Storage class	12 – non-combustible liquids
Water hazard classification	NWG – not hazardous to water according to AwSV
Transport	Not classified as dangerous goods under transport regulations
Shelf life	24 months in the unopened original container
Storage temperature	5 °C to 35 °C

COMPOSITION / INGREDIENT LOGIC

INCI declaration according to the Safety Data Sheet:

- Aqua
- Chitosan
- Hydrolysed Keratin

The product logic is based on a biocide-free formulated, film-forming surface treatment using specific chitosan biopolymer complexes.

CONSUMPTION

Guide consumption: approx. 50–100 ml/m²

The actual consumption may depend on:

- surface structure
- substrate absorbency
- porosity
- contamination or exposure situation
- desired treatment intensity
- application thickness
- application method

The consumption value must be assessed on a case-by-case basis, particularly on absorbent, porous, heavily stressed or repeatedly contaminated 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 should be checked in particular:

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

Sensitive materials, product-adjacent surfaces and coated surfaces must be assessed on a case-by-case basis.

APPLICATION

- i. Thoroughly clean the surface with ASPEREX Universal Cleaner Forte.
- ii. Wipe the surface dry or allow it to dry sufficiently.
- iii. Pour ASPEREX Preventive Gel Forte into a suitable application tray.
- iv. Apply thinly to the relevant surface using a roller or brush.
- v. Allow the gel to penetrate and dry.
- vi. Once sufficiently dry, the treated surface may be used again in accordance with the company's operational requirements.

Application may be carried out directly after cleaning, provided the surface has been wiped dry beforehand and is suitable for further treatment.

APPLICATION IN CRITICAL ZONES

ASPEREX Preventive Gel Forte is particularly suitable for areas with increased exposure, recurring moisture stress or restricted accessibility within the designated production areas.

These include in particular:

- moisture zones
- edge and junction areas
- transition areas
- joint areas
- detail zones
- porous surfaces
- permanently stressed operational surfaces

In areas that are inaccessible or only difficult to access, ASPEREX Preventive Fluid Forte may additionally be sprayed or fogged.

CLP / LABELLING INFORMATION

Proposal for technical documentation, subject to final regulatory approval:

Based on the available data, the mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

Hazard pictograms: none

Signal word: none

Hazard statements: none

Precautionary statements: no CLP-mandatory precautionary statements required, unless assessed otherwise from a regulatory perspective

The current Safety Data Sheet shall take precedence.

REPEAT TREATMENT

In the event of increased microbiological contamination, the ASPEREX system treatment should be repeated as part of the company's basic cleaning routine.

For less sensitive surfaces and working areas, treatment may be repeated at intervals of 1 to 6 months.

Officially or operationally prescribed cleaning cycles must not be extended or reduced as a result.

APPLICATION AND OCCUPATIONAL SAFETY NOTES

The information provided in the current Safety Data Sheet must be observed during application.

General Notes:

- avoid contact with eyes
- do not eat, drink or smoke during use
- ensure adequate ventilation
- wear suitable protective clothing
- wear tightly fitting safety goggles when decanting or transferring
- wear suitable protective gloves
- close containers tightly after product removal

In the event of an accident, feeling unwell, eye contact or ingestion, the instructions in the Safety Data Sheet must be followed.

SYSTEM COMBINATION

ASPEREX Preventive Gel Forte may be used:

- after cleaning with ASPEREX Universal Cleaner Forte
- in combination with ASPEREX Preventive Fluid Forte
- for the targeted treatment of critical zones
- as part of a regular hygiene and prevention concept

The specific sequence of Fluid / Gel depends on the target area, surface and application situation.

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 the unopened original container: **24 months**



PACKAGING

ASPEREX Preventive Gel Forte is available as:

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

DISPOSAL

Product-specific disposal instructions will be added.

Until final supplementation, product residues, cleaning liquids and packaging must be disposed of in accordance with the applicable official regulations. Observe the information provided in the current Safety Data Sheet.

NOTES

This Technical Data Sheet describes the intended technical application of the product. It does not replace the Safety Data Sheet and does not release the user from the obligation to assess substrates, operational requirements, hygiene requirements and material compatibility on a case-by-case basis.

CONTACT

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