

BIONI HYGIENIC®

Specially formulated and patented, low-VOC Interior coating for hygiene-sensitive areas



- durable resistance against bacteria and mildew
- resistant against disinfectants
- low VOC



Description

BIONI HYGIENIC® is a specially formulated pure acrylic interior coating which has been developed in conjunction with the Fraunhofer Institute for Chemical Technology (ICT). Thanks to unique SILVER SYSTEM TECHNOLOGY and lightweight, silica-based micro-fillers, BIONI HYGIENIC® has a durable, high resistance to mould and bacteria infestation and is therefore particularly suitable for use in hygiene sensitive rooms and areas.

Recommended Use

For high-quality and resilient interior coatings in hygiene sensitive areas, such as hospitals, clinics, medical centres, care homes, doctor's surgeries, rehabilitation facilities, clean rooms and others. Only conditionally suitable for the particularly high requirements in industry and therefore only possible following prior technical clarification with the manufacturer.

Technical Data

Product code:	M-DF01
Form:	liquid/pasty
Colour:	white
Finish:	matte
Solids (volume):	approx. 58%
Binding agent:	Pure Acrylic
pH:	approx. 9
VOC:	< 1 g/l (ISO 11890-2)
Density:	approx. 1.10 g/cm ³
Packaging:	5.0 Litres 10.0 Litres

Product Features

- durable resistance against bacteria and mildew
- resistant against disinfectants
- low VOC
- prevents the spread of bacteria on the coating surface (e.g. MRSA >99.99% reduction on the coating)
- exceeds indoor air quality regulations (TÜV Rhineland/LGA certified)
- tested and certified according to "AgBB Evaluation Scheme" (Committee for health-related evaluation of building products)
- recommended for indoor applications (certificate)
- excellent washability (Class 2 according to DIN EN 13300)
- environmentally friendly, no added preservatives
- free of solvents and softeners
- free of fogging-active substances
- water vapour permeable
- non-flammable (according to DIN 4102-1)
- excellent hiding and coverage (class 2 according to DIN EN 13300)
- odour-free (newly treated rooms can quickly be reused)
- excellent application properties

Application Areas/Substrates

For internal use on walls and ceilings. As a new or renovating coat on all the usual, firm interior surfaces, such as old and new plasters and stucco, wallpapers and glass fibre cloths, gypsum boards, concrete,

sand-lime-brick and fair-faced masonry. For applying on previously painted walls and ceilings such as firm old silicate, silicon resin and emulsion-based coatings.

Surface Preparation

The surface must be fully cured, clean, dry and free of dirt, contaminants and release agents. Remove loose and failing paint. Apply 1 coat BIONI GRIP Primer on sanding and/or caulking substrates (refer to Technical Data Sheet No. 095-EN). If the surface is mildewed disinfect with BIONI CLEAN before painting BIONI HYGIENIC® (refer to Technical Data Sheet No. 101-EN and to leaflet „Mould remediation guidelines“).

Application

Can be applied by brush, roller or sprayed using suitable equipment. Stir thoroughly before use. Must be applied in 2 undiluted coats. In special cases (e.g. high ambient temperature during use or very coarse substrate) the first coat can be thinned with max. 5% water. At +20°C and 55% rel. humidity, the surface of the first coat is dry and can be coated over after approx. 4-6 h. The coating is completely through-dried and resilient after 3-5 days. Expect longer dry times at lower temperatures and higher relative humidity. Ensure adequate ventilation during application and drying.

Typical Coating System

The coating system depends on the type and condition of the substrate (refer also to "Surface Preparation"):

1.	<i>Prime coat</i>	Depending on type of surface and substrate condition
2.	<i>First coat</i>	1x BIONI HYGIENIC® approx. 145-175 ml/m ²
3.	<i>Final coat</i>	1x BIONI HYGIENIC® approx. 145-175 ml/m ²

Consumption

One litre covers approx. 2.8-3.5 m² (with 2 coats). This is equivalent to approx. 145-175 ml/m² per coat and 290-350 ml/m² with 2 coats (depending on the substrate). Consumption (coverage) is highly dependent on the quality of the substrate, the type of application and the climatic conditions. Precise consumption quantities must therefore be determined by trying out coatings on a test area on site if necessary.

Important note: The coat thickness has an important effect on long-term protection of the coating surface against microbial infestation with mould. BIONI HYGIENIC® must therefore always be applied thickly and uniformly. Do not use less than the specified (minimum) consumption quantities. Avoid under-thick coatings.

Conditions During Application

The temperature of the substrate and ambient should be minimum +5°C during application and drying.

Mixing

BIONI HYGIENIC® is ready for use. The characteristics of the product can be affected if mixed with other substances. Tinting with standard tinting products is therefore only possible after suitable trying out on a test area. **Note:** Tinting with tinting pastes containing VOC affects the VOC content of the product.

Touch-up

Partial improvements (patch painting), repairs and reworking of the surface with the

original material are possible. Note and follow the manufacturer's technical recommendations. Due to the large number of influencing factors (e.g. quality of the substrate, colour, applied coat thickness, uniformity of the application, time between first coat and making good, climatic effects, etc.) it is possible that the made good areas become visible or apparent.

Recoatibility

BIONI HYGIENIC® can be coated over with standard interior paints, e.g. emulsion-based paints. The properties of BIONI HYGIENIC® are nullified by overcoating and by wallpapering over it.

Clean Up

Clean tools immediately after use with water.

Storage

Store in a cool, dry place. Protect from heat, direct sunlight and freezing. Containers must be kept closed.

Shelf Life

24 months, if properly stored and tightly sealed. Opened containers can be stored for up to 12 months if tightly sealed.

Transportation

No special precaution measures for transportation required.

Disposal

Do not allow to enter drains or water-courses. Handle disposal of waste material in a manner which complies with local, state, provincial and federal laws and regulations.

Safety

Keep out of reach of children. Do not breathe in spray mist if applying using spraying methods. Consult the Material Safety Data Sheet for further health and safety information.

Limited Warranty Notice

This Technical Data Sheet has been compiled based on the latest state-of-the-art standards, intensive development work and many years of practical experience. Due to the diversity of substrates, possible applications and other influencing factors, the information provided cannot be binding and no liability can be deduced from it. The purchaser/user is always responsible for trying out the product to test its suitability for the planned use. Furthermore, the most recent version of our General Terms and Conditions of Business apply.

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