

# BIONI PERFORM®

Extremely resistant, patented façade coating with preventive long-lasting protection against mildew and algae growth



- durable resistance against algae and mildew
- excellent UV and weather resistance
- superior heat deflection properties



### Description

BIONI PERFORM® is a pure acrylic, highly resilient, patented exterior coating which has been developed in conjunction with the Fraunhofer Institute for Chemical Technology (ICT). Thanks to unique SILVER SYSTEM TECHNOLOGY and siliceous light fillers, BIONI PERFORM® is durably resistant to mildew and algae growth. Additionally, it is highly reflective and thus ideally suitable for façades exposed to strong environmental and climatic conditions.

### Recommended Use

For long-lasting, highly valuable façade coatings that provide durable protection against humidity as well as environmental and climatic conditions. Its preventive long-term protection against mildew and algae growth make it the ideal protective coating on thermal insulation composite systems. Being highly reflective, BIONI PERFORM® also makes the surface heat up less and therefore is also extremely suitable as a functional coating that reflects sunlight in warm regions.

### Technical Data

Product code:	M-DF02
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. 1.15 g/cm <sup>3</sup>
Packaging:	10.0 litres

### Product Features

- durable resistance against algae and mildew
- excellent UV- and weather resistance
- superior heat deflection properties (reduced heat build-up of the surface)
- low VOC
- superior durability
- excellent colour retention
- very water repellent
- water vapour permeable
- superior adhesion
- resistant to cracking, peeling, blistering
- flame retardant (according to DIN 4102-1)
- CO<sub>2</sub>-impermeable
- low odour
- excellent application properties

### Application Areas/Substrates

For external use on façade surfaces. As a new or renovating coat on all the usual, firm exterior surfaces, such as old and new plasters, concrete, sand-lime-brick and

fair-faced masonry, fibre cement panels, galvanized surfaces, wood and thermal insulation systems. For applying on previously painted facades 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). Before coating with BIONI PERFORM®, remove mildew, moss or algae growth on external surfaces with a high-pressure cleaner observing legal regulations and pre-treat with the appropriate cleaners.

### 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. 12 h. The coating is completely through-dried and resilient after 3-5 days. Expect longer dry times at lower temperatures and higher relative humidity. Application should only proceed in good weather conditions (avoid rain or direct sunlight).

### 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 PERFORM® approx. 165-200 ml/m <sup>2</sup>
3.	<i>Final coat</i>	1x BIONI PERFORM® approx. 165-200 ml/m <sup>2</sup>

### Consumption

One litre covers approx. 2.5-3.0 m<sup>2</sup> (with 2 coats). This is equivalent to approx. 165-200 ml/m<sup>2</sup> per coat and 330-400 ml/m<sup>2</sup> 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 algae and mildew. BIONI PERFORM® 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 PERFORM® 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 PERFORM® can be coated over with standard exterior paints, e.g. emulsion-based paints. The properties of BIONI PERFORM® are nullified by overcoating.

### 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 watercourses. 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.

This printed document becomes invalid if a new edition is published (Dated: 10/2014).

**BIONI CS GmbH**

Lessingstr. 21  
 46149 Oberhausen  
 Germany

Tel: +49 (0) 208 621 75-53

Fax: +49 (0) 208 621 75-55

info@bioni.de • [www.bioni.de](http://www.bioni.de)