

BIONI ROOF

Permanent roof coating that resists climatic conditions with preventive long-lasting protection against mildew, algae and moss growth



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





Description

BIONI ROOF is an acrylic-based, highly resilient, patented Roof 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 ROOF is durably resistant to algae and moss growth. Additionally, it is very reflective and thus suitable as protective coating for existing roofing against environmental and climatic conditions.

Recommended Use

For high-quality roof coatings and for protecting existing roofing permanently against environmental and climatic conditions. Its preventive long-term protection against algae and moss growth make it ideally suitable as protective coating on concrete roofing tiles and other roof covering materials. Being highly reflective, BIONI ROOF® 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. 55%
Binding agent: Acrylate copolymer
pH: approx. 9

VOC: < 25 g/l (ISO 11890-2)

Density: approx. 1.20 g/cm³

Packaging: 10.0 Litres

Product Features

- excellent UV- and weather resistance
- durable resistance against algae and mildew
- superior heat deflection properties (reduced heat build-up of the surface)
- reduces dirt pick-up
- available in typical roofing colours
- waterproofed
- excellent colour retention
- superior adhesion
- water vapour permeable
- resistant to cracking, peeling, blistering
- flame retardant (according to DIN 4102-1)
- excellent application properties

Application Areas/Substrates

For use on inclined roofs and flat roofs (in rainy regions with an inclination of at least 5%, do not apply on surfaces with standing water). As a new or renovating coat on all the usual, firm roof surfaces, such as clay tiles, concrete roofing tiles, artificial tiles,

corrugated iron, slate wood, galvanized surfaces and fibre cement panels.

Surface Preparation

Replace damaged roof tiles before painting. Remove algae and moss growth as well as adhered dirt completely with a high-pressure cleaner (fibre cement plates containing asbestos may not be cleaned!) observing legal regulations and pre-treat with the appropriate cleaners. Always work in flow direction. After cleaning, the surface must be fully cured, clean, dry and free of dirt, contaminants and release agents. Pre-treat with the appropriate cleaners. Apply 1 coat of BIONI GRIP Primer on sanding and/or caulking substrates (refer to Technical Data Sheet No. 095-EN).

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.	Prime coat	Depending on type of surface and substrate condition
2.	First coat	1x BIONI ROOF approx. 225-275 ml/m ²
3.	Final coat	1x BIONI ROOF approx. 225-275 ml/m ²

Consumption

One litre covers approx. 1.8-2.2 m² (with 2 coats). This is equivalent to approx. 225-275 ml/m² per coat and 450-550 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 algae and mildew. BIONI ROOF 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 ROOF 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.

Recoatability

BIONI ROOF can be coated over with standard roof paints, e.g. emulsion-based paints. The properties of BIONI ROOF 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