



Application Note

Bioni-Shield **ROOFING**

Age Resistant Roof Coating

Material

Product code: M-DF02

Description:

Bioni-Shield Roofing is a new composite material consisting of microscopically small, hollow glass spheres and a flexible polymer matrix possessing optimum application characteristics and multi-functional features.

Characteristics:

This is an age resistant, water repellent and extremely elastic coating for roofing surfaces. Bioni-Shield Roofing is resistant to UV light and the weather, and on top of all this, is elastic on stable surfaces. Due to its ability to reflect sunlight ($p_v=90\%$, $p_e=80\%$ according to DIN EN 410) cracks in the surface due to thermal movement are reduced. Bioni-Shield Roofing exhibits very high adhesion on almost all surfaces. It is quickly and easily applied, is almost odourless and is flame resistant (construction materials class B1, according to DIN 4102-1).

Form: paste-like

Colour: white

Finish: matt

Solid matter: approx. 55%

Thinner: water

Basis of binding agent: special binding agent

Viscosity: ready to use

pH value: approx. 9

Specific weight: 1,08g/cm³

Areas of Application:

Inclined roofs and flat roofs with an inclination of at least 5%. Can be used as a final coat on old and new clay and concrete tiles, Eternite, galvanised sheet metal and resin free wood.

Packaging:

Ready to use, in 12,5 litre or 5,0 litre units. (Order code: 12,5 litre unit: BSR-12; 5,0 litre unit: BSR-5).

Storage:

Store in a cool, frost-free and dry place in closed, original container.

Use

Application:

Can be applied by brush, roller or sprayed using suitable equipment. Stir thoroughly before use.

Surface:

The surface should be dry, stable, free of contaminants and release agents. Prepare absorbent and/or sandy surfaces with Bioni-Shield Grip first. In order to isolate substances originating from within wood, prepare with a suitable isolating primer first. Observe VOB, Part C, DIN 18363 for surface preparation and application.

Coating Structure:

Apply Bioni-Shield Roofing in three coats.

Undercoat: undiluted.

Second coat: undiluted.

Topcoat: undiluted.

Coverage:

One litre will cover approx. 1,3 – 2,0 m². This is equivalent to approx. 165-250 ml/m² per coat and a total of approx. 500 - 750 ml/m² depending upon the surface. Determine exact quantities by means of test coats.

Compatibility:

The characteristics of the product are affected if mixed with other substances. Carry out your own tests in order to verify suitability when using generally available toners.

Application Temperature:

At least +5°C air and surface temperature during application and drying.

Drying:

Can be recoated after approx. one day at +20°C and 65% rel. humidity.

Equipment Care:

Rinse thoroughly with water immediately after use.

Disposal

Do not allow to flow into the drainage or sewage systems. Recycle only containers, which have been cleaned of remaining product. Product, which has dried hard, can be disposed of as construction site waste or as household waste. Containers with liquid product should be taken to a collection point for paint disposal.

Safety

Keep out of reach of children.

Transport:

No special precautions are necessary.

Labelling:

No special labelling requirements, according to Regulations for Hazardous Materials.

Please see EU Safety Data Sheet for further information.

This Application Note is based upon state of the art technical knowledge and our experience. In view of the variety of surfaces, applications and other factors influencing the use of the product, no liability can be accepted. This document is superseded by later issues. (Date: March 2002)