

TECHNICAL DATA SHEET



Bioni Roof

New multi-functional energy saving roof coating based on green nano-technology

Product

Product Description:

Pure acrylic multi-functional roof coating based on green nano-technology that provides maximum protection against UV light, weathering and makes old roofs look new and beautiful.

Features:

- Extremely durable finish for longlasting roof protection
- Permanently prevents mold, mildew and other unwanted microbial growth on the paint film
- Protects tiles from uplifting in high winds and hurricane zones due to excellent bonding properties
- Excellent UV-resistance and color retention
- Superior resistance to cracking, peeling, and blistering
- Very water-repellent
- Permeable to water vapor
- Is environmentally safe to apply, cleans up with soap and water
- Is eco-friendly: Low VOC (<25 g/l)
- Superior adhesion
- Reduces dirt build-up
- Flame-retardant (B1 / DIN 4102-1)

Technical Information:

Form: liquid

Color: white and 1750 colors

Finish: matte

Solids (% by Volume): approx. 58%

Thinner: water

Vehicle Type: 100% Acrylic resin

pH: approx. 9

Weight per Gallon: 10.0 lbs (1.20 kg/l)

VOC (ISO 11890-2): 24 g/l; 0.20 lbs/gal (=2.0%)

Packaging:

1 and 3 Gallon pail.

Recommended Use

For exterior use. **Bioni Roof** is ideal for roofs with an inclination of at least 5%. Protects roofing materials that include clay tiles, concrete tiles, artificial slate tiles, corrugated iron, and wood against UV, weather and moisture damage.

Application

Area of Application:

For use on numerous roofing materials such as clay tiles, concrete roofing tiles, artificial slate tiles, corrugated iron and wood.

Application Methods:

To be applied by brush, roller (use a high-quality lambskin roller) or sprayed using suitable equipment. **Stir thoroughly before use.**

Surface Preparation:

Replace damaged roof tiles before painting. The surface must be fully cured, clean, dry and free of dirt, contaminants and release agents. For preparing cementitious substrates refer to ASTM D-4258 and ASTM D-4261. Apply 1 coat Bioni Grip as a primer on new surfaces. **MILDEW:** Remove mold and algae by washing or power-washing. Apply Bioni Clean. Do not wash off later. **WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Center at 1-800-424-LEAD or log on to www.epa.gov/lead.

Typical Recommended Paint

System:

- 1 coat Bioni Clean if area mildewed or
- 1 coat Bioni Grip (if area is not mildewed but needs to be prepared before painting)
- 2 coats **Bioni Roof**.

Spreading Rate:

150-200 sq. ft. per Gallon per coat, applied at 9.1 mils wet, 5.3 mils dry depending on the substrate and texture.

Thinning / Mixing:

Single pack. Ready to use. If necessary (i.e. if RH <50%, direct sunlight, windy conditions), thin sparingly with clean water up to 1/2 pint per Gallon. The characteristics of the product can be affected if mixed with other substances.

Conditions during Application:

The temperature of the substrate and ambient should be > 41°F during application and drying.

Curing / Drying (at 68°F, 50% RH):

1 hour (to touch) / 12 hours (to recoat).

Storage:

Can be stored for approximately 24 months in a cool but frost-free area (unopened).

Clean-up:

Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water.

Disposal

Handle disposal of waste material in manner which complies to local, state, province and federal laws and regulations.

Check www.earth911.org for recycling and disposal information in your area.

Health and Safety

DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. Use only with adequate ventilation. Do not breathe spray mist or sanding dust. Ensure fresh air entry during application and drying. Avoid contact with eyes and prolonged or repeated contact with skin. Avoid exposure to dust and spray mist by wearing a NIOSH approved respirator during application, sanding and clean up. Follow respirator manufacturer's directions for respirator use. Close container after each use. **FIRST AID:** SKIN CONTACT: Wash thoroughly with soap and water. EYE CONTACT: Flush immediately with water for 10-15 minutes and contact a physician. RESPIRATORY PROBLEMS: Remove affected person to fresh air immediately and contact a physician. **Read the current Material Safety Data Sheet (MSDS) for additional health and safety information.**

LIMITATION OF LIABILITY:

The information herein is given to the best of our knowledge based on practical experience and laboratory testing. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.