BMA ROOF COATING

TECHNICAL DATA SHEET

Product Code:1BM-RCW
Hardener Code (if applicable): Not Applicable

I. Product Description

BMA Roof Coating is a water-based, styrene-acrylic modified roof coating designed to provide superior protection for a variety of roofing substrates. It offers long-lasting defense against water leaks, UV radiation, dirt accumulation, ozone, rain, and snow. Due to its elastomeric properties, 1BM-RCW can stretch and return to its original shape without compromising its protective performance. It is suitable for application on all types of concrete and cementitious roofs, walls, and ceilings.

II. Product Performance Characteristics

- Waterproofing and weatherproofing properties
- UV protection and solar reflectivity leading to an anti-aging characteristic
- Remarkable elasticity up to 800%
- Resistance to dirt fungi, and algae grow up
- A long-lasting roof isolation
- Cooling cost savings by reduction of temperature extremes found on roofs

III. Areas of Application

BMA Roof Coating could be used for:

- Concrete and build-up roofing
- Clay and concrete tiles
- Cementitious façades

IV. Technical Specifications

Data for BMA Roof Coating 1BM-RCW:

Parameter	Norm/Standard	Result
Total Solids, by weight (%)	ASTM D2369	56
Total Solids, by volume (%)	ISO 3233	46
Total Pigments, by weight (%)	ASTM D3723	26

Viscosity at 25°C (P)	ASTM D562	40
Specific Gravity (g/cm^3)	ASTM D1475	1.2
Dry opacity (Contrast ratio at 150µm WFT [(1)])	-	> 0.95
Spreading rate at 200 µm DFT [(2)] (m²/L)	-	2.1 - 2.63
Total Volatile Organic Compound (VOC) (g/L)	ASTM D3960	33.93
Appropriate Diluent	-	water
Diluent percentage	-	First coat: 80 to 100% Second coat: 30 to 40% Third coat: 0 to 10%
Recommendation DFT[(2)]	-	175-220 microns

Application Procedure

Surface Preparation

Before applying BMA Roof Coating, all necessary pretreatment must be done. Surface should be clean, dry and free of all contaminants (oils, dust, dirt, etc...) in order to avoid the risk of surface failing.

Concrete Surfaces

Concrete substrate must be well prepared in order to avoid any coating defects.
For new surface, ensure that concrete is completely cured for at least 30 days.
For both fresh and old concrete, decontamination is required to remove any dust, oil, grease, laitance, fatty acids or any additional contaminants. Acid etching is recommended using Hydrochloric Acid Solution. Decontamination could be also done using detergent scrubbing, low pressure water cleaning, or steam. Well rinsing with clean water is required after the acid etching.
After cleaning, fill and repair any surface irregularities (cracks, holes and pores) with BMA elastic Putty 1BM-EPS, allow to dry.
Check the moisture and the pH of the substrate. Ensure that the pH is between 6 and 9 since alkalinity can affect and destroy paint adhesion. For the moisture content, make sure that it does not exceed 4% (by weight). Otherwise, the concrete surface is not a good candidate for painting.

Cementitious Walls and Façades

Cementitious walls should be un-painted, clean and dry.
If the wall needs to be puttied, use BMA elastic putty 1BM-EPS.

Thinning

Apply the first layer of 1BM-RCW with a brush or a roller after dilution with 80 to 100% of water and the second layer after dilution with 30 to 40% of water and the third layer from 0 to 10% of water.

Application

BMA Roof Coating should be applied in a well-ventilated area where the humidity does not exceed 85% and the temperature is between 10°C to 35°C.

Follow the below recommended system to provide a maximum protection to the substrate after a well cleaning, drying and removal of contaminations and dust residues:

- Apply the first layer of 1BM-RCW, let it dry for 8 - 24 hours then continue with the second layer.
- Let dry for 8 - 24 hours and finalize with the third layer of BMA Roof Coating.
- Let the system dry for at least 12 hours.
- Rain should not be forecast for at least one week after BMA Roof Coating application.

V. Drying Conditions

Condition	Time
Surface Touch Dry	2 hours
Dry to over coat	8-24 hours
Full cure time	7-14 days

VI. Color Range

Available in White and Red brick.

VII. Packaging

Available in:
Gallon & Pail kits.

VIII. Shelf Life & Storage Conditions

Shelf Life	Storage Temperature & Humidity	Storage Conditions
▪ 1 year from the manufacturing date.	▪ **Temperature:** Between 5ºC and 35ºC ▪ **Humidity:** Should not exceed 85%	Store in undamaged, unopened containers. The product must be kept away from direct sunlight and any sources of heat or flame.

IX. Safety, Health, and Environmental Compliance

Aspect	Details
Environmental Impact	Contains volatile organic compounds (VOCs); avoid release into the environment. Dispose of in accordance with local environmental regulations. Prevent contamination of soil and waterways.
Health Hazards	Harmful by inhalation, skin contact, and if swallowed. May cause allergic skin reactions, respiratory irritation, or eye damage. Prolonged exposure may affect the central nervous system.
Safety Precautions	Use only in well-ventilated areas. Wear appropriate personal protective equipment (PPE) including gloves, goggles, and a respirator. Avoid direct contact with skin and eyes. Do not eat, drink, or smoke while using the product.
First Aid Measures	**Inhalation:** Move to fresh air; seek medical attention if symptoms persist. **Skin Contact:** Wash immediately with soap and water. Remove contaminated clothing. **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical advice. **Ingestion:** Do not induce vomiting. Rinse mouth and seek immediate medical assistance.

X. Certifications and Test Reports

BMA Commercial & Industrial s.a.l holds ISO 9001:2015, ISO 45001:2018, and ISO 14001:2015 certifications, ensuring that all operations are conducted in compliance with international standards. This product is formulated with low levels of volatile organic compounds (VOC) and is entirely free from lead and other hazardous heavy metals. Its composition complies with international environmental regulations and health safety standards, ensuring safer application, improved indoor air quality, and reduced environmental impact.

XI. Disclaimer

The statements, technical information, and recommendations contained herein are believed to be accurate. However, as the conditions and methods of use of the product and the information provided are beyond our control, BMA Commercial & Industrial s.a.l expressly disclaims any and all liability for any results obtained or consequences arising from the use of the product or reliance on this information.