# BMA WATER BASED POOL INSULATOR

TECHNICAL DATA SHEET

***Product Code:***
***Blue: 1BM-RCW110***
***White: 1BM-RCW101***
***Hardener Code (if applicable): Not Applicable***

## I. Product Description

A water-based acrylic resin pool insulator formulated to enhance waterproofing and fill tiny cracks, providing a uniform coating for surfaces constantly exposed to water and moisture. It offers long-lasting protection against ultraviolet radiation, dirt adherence, ozone, rain, and snow. Once dry, it exhibits high elasticity and does not crack due to expansion, shrinkage, or structural subsidence.

## II. Product Performance Characteristics

- Waterproofing and weatherproofing properties
- UV protection and solar reflectivity leading to an anti-aging characteristic
- Resistance to dirt fungi, and algae grow up
- A long-lasting pool isolation
- Resistant to temperature change

## III. Areas of Application

BMA Water Based Pool Insulator could be used for:

- Concrete and cement surfaces

## IV. Technical Specifications

*Data for BMA Water Based Pool Insulator 1BM-RCW101:*

| Parameter | Norm/Standard | Result |
|---|---|---|
| Total Solids, by weight (%) | ASTM D2369 | 60 |
| Total Solids, by volume (%) | ISO 3233 | 50 |
| Total Pigments, by weight (%) | ASTM D 3723 | 30 |
| Viscosity at 25°C (P) | ASTM D562 | 40 |
| Specific Gravity (g/cm$^3$) | ASTM D1475 | 1.3 |

| | | |
|---|---|---|
| Spreading Rate ($m^2$/L) | - | 2.4 |

## V. Application Procedure

### Surface Preparation

Before applying BMA Water Based Pool Insulator, 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.

### Thinning

If thinning is required, apply the first layer of BMA Pool Insulator with a brush or a roller after dilution with 80 to 100% of water and the second layer after dilution with 40 to 50% of water and the third layer from 0 to 20% of water.

### Application

BMA Water Based Pool Insulator should be applied in a well-ventilated area where the humidity does not exceed 85% and the temperature is between 10°C to 40°C.

- Apply the first layer of the pool insulator using a roller, let it dry for 8 - 12 hours then continue with the second layer.
- Let dry for 8 – 12 hours and finalize with the third layer of BMA Pool Insulator.
- Let the system dry for 72 hours before any contact with water.

## VI. Drying Conditions

| Condition | Time |
|---|---|
| Surface Touch Dry | 2 hours |
| Dry to over coat | 8-12 hours |

| | |
|---|---|
| Full cure time | 3 days |

## VII. Color Range

Available in white and blue only.

## VIII. Packaging

Available in:
Gallon & Pail kits.

## IX. Shelf Life & Storage Conditions

| Shelf Life | Storage Temperature & Humidity | Storage Conditions |
|---|---|---|
| ▪ 1 year from the manufacturing date. | ▪ **Temperature:** Between 5ºC and 35ºC<br>▪ **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. |

## X. 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.<br>**Skin Contact:** Wash immediately with soap and water. Remove contaminated clothing.<br>**Eye Contact:** Rinse cautiously with water for several minutes. Seek medical advice.<br>**Ingestion:** Do not induce vomiting. Rinse mouth and seek immediate medical assistance. |

## XI. 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.

## XII. 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.