BMA CHLORINATED RUBBER

TECHNICAL DATA SHEET

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

I. Product Description

A versatile, high-build, easy-to-apply, single-pack chlorinated rubber-based paint. This high-build coating offers excellent resistance to chemicals in damp environments. Its water resistance and anti-skid properties make it ideal for environments exposed to industrial and natural acids.

II. Product Performance Characteristics

- Low-temperature flexibility
- Excellent durability
- Resistance to water, UV, chemicals, alkalis, fungi, and high abrasion
- Easy-to-apply one-component material
- Excellent adhesion to all types of substrates, including concrete and asphalt

III. Areas of Application

BMA Chlorinated Rubber Paint can be used for:

- Road markings, parking, and pedestrian crossings
- Traffic signs and restrictions
- Industrial floor markings for factories and warehouses
- Emergency and fire exits
- Swimming pools

IV. Technical Specifications

Data for BMA Chlorinated Rubber Paint:

Parameter	Norm/Standard	Result
Total Solids, by weight (%)	ASTM D1259	60
Total Solids, by volume (%)	ISO 3233	33
Viscosity at 25°C (KU)	ASTM D562	115

Specific Gravity (g/cm^3)	ASTM D1475	1.2
Total Volatile Organic Compound (VOC) (g/L)	ASTM D3960	575.85
Theoretical Spreading Rate (m^2/L)	-	4.4-6.6
Recommended WFT [2] (µm)	-	100-150
Recommended DFT [1] (µm)	-	50-75
Gloss Level (%)	-	Matt
Appropriate solvent	-	Xylene
Solvent ratio by volume (%)	-	20-30

[1] DFT: Dry Film Thickness
[2] WFT: Wet Film Thickness

V. Application Procedure

Surface Preparation

Before applying BMA Chlorinated Rubber Paint, 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.

Steel Surfaces

For new steel, clean the surface from any oil or grease residues using SAMA chemical 3 in 1 phosphating additive (1L:35L water). Sand the substrate to Sa 2½ until smoothing then remove all sanding dust and let it dry before any primer application.

For painted steel, remove loose and peeling paint using mechanical methods such as sanding or sandblasting of the entire surface until smoothing so the new coating can adhere properly. When the old paint is compatible with the new one, only light sanding is required. Then, remove persistent dirt, sanding residues, and zinc salts with a detergent solution and water.

For non-ferrous metal (galvanized steel, aluminum, stainless steel, etc…), remove corrosion residues and promote adhesion to the subsequently applied coatings, use a thin layer (8-10 µm) of BMA Wash Primer in order to etch the substrate. In case of unetched surface or when etching is not possible, apply a sweep or brush blast cleaning using a non-metallic abrasive in order to lightly roughen the surface. Let the surface dry before coating application.

To adjust the surface unevenness, BMA putty polyester should be applied.

For corrosion prevention, the cleaned surface should directly be primed.

Concrete Surfaces

Concrete substrate must be well prepared in order to avoid any coating defects.

For new surface, ensure that concrete is completely cured 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 Acid Solution. Decontamination

could be also done using detergent scrubbing, low pressure water cleaning, or steam. A good water rinsing should follow the acid etching.

After cleaning, fill and repair any surface irregularities (cracks, holes and pores) with the cementitious mixture.

Cementitious mixture preparation: first, prepare an SBR Solution by mixing BMA SBR with water (1:5 by volume). Then, add the SBR Solution to the cement and sand until reaching the desired cementitious mixture.

BMA puttypoxy could be used to repair light scratches. Allow concrete substrate to dry then 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.

Priming

BMA Chlorinated Rubber Paint is a self-priming product.

Thinning

Thinning is required for spray application, for the first layer add 20-30% of xylene by volume and 10% for the second layer.

Application

BMA Chlorinated Rubber Paint should be applied in a well-ventilated area where the humidity does not exceed 75% and the temperature varies between 5°C and 35°C.

Application Method	Details
Spray	Can be sprayed or applied using a mohair roller on a clean and dry surface.
Number of Coats	Two coats are usually required. Application of three coats is not recommended.
Reflectiveness (Night Visibility)	Night visibility of the road marking can be improved by glass beads. Glass beads should be uniformly spread by a drop-on-method on the wet paint immediately after application. Adding glass beads also increases abrasion resistance of the applied coating.
Ventilation (Enclosed Areas)	When coating in enclosed area, forced ventilation must be utilized to help solvent fumes to be removed from the coating, to get dry and create safer environment for the workers.

VI. Drying Conditions

Condition	Time
Surface Touch Dry	30 minutes to 1 hour
Through Dry	2 hours

Dry to over coat	24 to 48 hours

VII. Color Range

Available Colors: White and Tinted (matt finish).

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 5°C and 35°C ▪ **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. **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.

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

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.