

BMA WATER BASED ENAMEL FOR STEEL

Code: *BMA-WES*

Color: *upon request*

PROPERTIES

BMA Water Based Enamel for Steel is a styrene acrylic-based paint formulated as an environmentally friendly and low VOC content paint for interior and exterior steel. BMA Water Based Enamel for Steel offers a durable paint with very good opacity and non-yellowing properties, long lasting ability and a high resistance to peeling, flaking and corrosion.

RECOMMENDED USES

BMA Water Based Enamel for Steel could be used on steel substrates for:

- ✓ housing development, villas, industrial and commercial complexes
- ✓ schools, hotels, hospitals

PERFORMANCE BENEFITS

- ✓ Withstanding impact resistance and good flexibility
- ✓ Very good opacity
- ✓ Excellent durability and yellowing resistance
- ✓ Good adhesion to the surface
- ✓ Alkaline & Chemical resistant
- ✓ Rustproofing capacity
- ✓ Protection against weathering conditions
- ✓ Low VOC content & low odor

CHARACTERISTIC PHYSICO-CHEMICAL DATA

BLACK, DEMI-MATT

Tests	Norms	Results
Total solids, by weight	ASTM D2369	45% ± 2%
Total solids, by volume	ISO 3233	33% ± 2%

Consistency, at 25°C	ASTM D562	95 – 105 KU
Total Volatile Organic Compound (VOC)	ASTM D3960	< 50 g/L
Recommended Film Thickness	-	1st Coat Wet: 4.6 mils / Dry: 1.5 mils @ 350 sq ft / gal 2nd Coat Wet: 4.0 mils / Dry: 1.3 mils @ 400 sq ft/gal

APPLICATIONS GUIDE

Surface Preparation

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

For new steel, clean the surface from any oil or grease residues using a solution (1:10) of Eksen Kimya (1 L of EKSEN KIMYA DL50 dissolved in 10 L of 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 and 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 and sanding residues with a detergent solution.

For non-ferrous metal (galvanized steel, aluminum, stainless steel, iron, etc...), use BMA Wash Primer BMA-WPU in order to etch the substrate, remove any corrosion residues and promote adhesion to the subsequently applied coatings. In case of unweathered surface or when weathering 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.

Priming

Following a sufficient preparation of the substrate, one coat of Water based Primer for steel (BMA-WPS) can be used as a primer or self-prime with two coats of the water-based Enamel for steel (BMA-WES).

Application

BMA Water based Enamel for Steel should be applied in a ventilated area where the humidity does not exceed 85%, nor in sunny days on hot substrates. The required temperature for optimum performance is between 5°C and 35°C.

After priming the surface with one coat of the BMA Water Based primer for steel, apply two coats of BMA Water based Enamel for Steel using a brush, roller or an airless spray.

Drying Time

Surface (Touch) Dry: 1 hour

Dry to over coat: 3 hours

Full cure: 4 weeks

AVAILABLE PACKAGING

Gallon = 4 L; Pail = 17 L

SHELF LIFE

BMA Water based Enamel for Steel should be stored in closed and undamaged containers in a well-ventilated area where the humidity does not exceed 85% and at a maximum temperature of 35°C.

Under these conditions, the shelf life of BMA Water based Enamel for Steel will be 2 years. After this period, the product quality is subjected to re-inspection.

HEALTH & SAFETY

Before using this product, please consult our Safety Data Sheet (SDS) for complete information on Hazards Identification, First-Aid and Fire-Fighting Measures, Accidental Release Measures, Handling and Storage, Exposure Control and Personal Protection, Stability and Reactivity, Toxicological Information, and Transport Information.

QUALITY ASSURANCE

BMA Commercial & Industrial s.a.l is a holder of the ISO 9001:2015 and ISO 45001:2018 certificates, which guarantees that all operations are conducted in compliance with International Standards.

TDS.209 - Edition #: 2

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