

BMA SELF LEVELING EPOXY PRIMER

Code: BMA-SLP000

Code of its hardener: BMA-HPE900

Color: Catalogue Colors

PROPERTIES

BMA Self Leveling Epoxy Primer is a two-component epoxy coating. It forms a smooth and seamless surface with a high protection against effects of mechanical stress in addition to that it has chemical, foot and vehicle traffic resistance. BMA Self Leveling Epoxy is applied on any type of indoor and outdoor well prepared concrete floors substrates.

RECOMMENDED USES

BMA Self Leveling Epoxy Primer can be used for

- ✓ Chemical, water and power plants
- ✓ Marine applications
- ✓ concrete, steel & wooden floors
- ✓ Warehouses and parkings

PERFORMANCE BENEFITS

- ✓ High mechanical and chemical resistance against effects of acids, alkalis, solvents.
- ✓ Excellent levelling
- ✓ Good adhesion to the surface
- ✓ Withstanding heavy duties
- ✓ High durability

CHARACTERISTIC PHYSICO-CHEMICAL DATA

Data corresponding to **BMA Self Leveling Epoxy Primer (Part A)**, cross-linked with its hardener **BMA-HPE900 (Part B) (A+B)**:

Tests	Norms	Results
Total Solids, by weight	ASTM D1259	99%
Viscosity, at 25°C (Part A)	ASTM D562	15 Poises
Specific Gravity (g/cm ³)	ASTM D1475	1.3
Total Volatile Organic Compound (VOC)	ASTM D3960	12 g/L
Spreading Rate at 100 µm DFT ⁽¹⁾	-	10 m ² /L
Recommended WFT ⁽²⁾ @5%	-	106 µm
Hardener Code	-	BMA-HPE900
Hardener Percentage	-	50%
Pot Life	-	90 minutes

¹⁾ DFT: Dry Film Thickness

²⁾ WFT: Wet Film Thickness

APPLICATIONS GUIDE

Surface Preparation

Before applying BMA Self Leveling Epoxy Primer, 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 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 Eksen Kimya Hydrochloric Acid Solution. Decontamination could be also done using detergent scrubbing, low pressure water cleaning, or steam.

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

Cementitious mixture preparation: first, prepare a 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.

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.

For Metal Surfaces:

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.

Mixing

Mix thoroughly 50% by volume of the hardener BMA-HPE900 with BMA Self Leveling Epoxy Primer. Apply the mixture within its pot lifetime (90 minutes) at ambient temperature.

Application

BMA Self Leveling Epoxy Primer should be applied in a well-ventilated area where the humidity does not exceed 85% and when the temperature varies between 5°C and 40°C. The application must be done on a clean and dry surface using a brush, roller, conventional or airless spraying system within the pot life of the prepared mixture (90 minutes).

Overcoating could be done after 24 hours at ambient temperature.

Drying Time

Surface (touch) dry: 2 hours

Dry to over coat: 24 hours

Full cure time: 7 days

AVAILABLE PACKAGING

Gallon Kit = 4L + 2L; Pail Kit = 20L + 5L

SHELF LIFE

BMA Self Leveling Epoxy Primer should be stored in closed and undamaged containers in a well-ventilated area where the temperature varies between 5°C and 40°C and away from any source of heat or freezing. Direct exposure to sunlight should be avoided.

Under these conditions, the shelf life of BMA Self Leveling Epoxy Primer will be 1 year and of its hardener 1 year.

After these periods, the products are subjected to re-inspection. Proper handling is essential to maintain good quality.

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.164 - Edition #: 2

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