



TECHNICAL INFORMATION

EPOXY PRIMER AQUA 2-COMPONENTS



DESCRIPTION:

Epoxy primer water based bi-component cured with polyamide containing zinc of phosphate as inhibitor of rusting, for protection of metal structures, floors of concrete, etc. Undercoat to facilitate the adherence over galvanized surfaces, aluminium, zinc, etc.

Features:

-) Excellent adherence to concrete and metal substrates.
-) Waterproofing, antirust and exterior resistant.
-) High resistance to chemical attacks (acids, alkalis, oils, etc.)
-) High mechanical resistance.
-) Free of solvents.

TECHNICAL DATA:

Fixed vehicle	Epoxy-polyamide resin.	
Colour	Red oxide (Ral 3009 approx.), grey (Ral 7004 approx.).	
Gloss	Satin.	
Solids by weight (A+B)	68 %	UNE-EN ISO 3251
Solids by volume (A+B)	46 %	UNE 48090
Specific weight (A+B)	1.10 – 1.20 Kg./l (23 ± 2 °C)	UNE-EN ISO 2811-1
pH (A+B)	9.0 – 10.0 (23 ± 2 °C)	UNE-EN ISO 787-9
Theoretical spreading rate (A+B)	8 – 12 m ² /Kg. and coat. Take in mind application leaking, surface irregularities, etc.	
Recommended thickness	70 – 110 microns wet; 32 – 50 microns dry per coat. Apply 2 coats.	
Drying touch	8 – 10 hours at 23 °C and 55% relative humidity. Depend on air temperature and ventilation.	
Total drying time	20 – 24 hours at 23 °C and 55% relative humidity. Depend on air temperature and ventilation.	
Full cure	7 days at 23 °C and 55% relative humidity, 14 days at 12 °C and 55% relative humidity.	
Pot mixing life	60 minutes colours and colourless. The useful life of the mixture depends on the temperature and amounts mixed.	
Repaint	24 – 48 hours maximum.	
Solvent	Water	
Reaction to fire	Class M-1	UNE 23727
Reaction to fire	B _{fl} s1	UNE-EN 13501-1:2007
Traction adherence (cement board/7 days at 23 °C/100 ↑m dry)	> 5 N/mm ²	UNE-EN ISO 4824
Persoz Hardness	174 seconds (200 ↑m wet / 7 days at 23 °C)	UNE-EN ISO 1522

Pinturas Decolor

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Corrosion test (salt mist)	> 500 hours of exposure	ASTM B-117
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EU limit value for this product (cat. A/j): 140 g/l (2010). Max. content VOC: 30 g/l

Adhesion / Lattice cut test UNE-EN ISO 2409		
Surface	Details	Resulted
Carbon steel	50 µm dry applied directly; 7 days at room temperature	0/0/0
Galvanised steel	50 µm dry applied directly; 7 days at room temperature	0/0/0
Aluminium	50 µm dry applied directly; 7 days at room temperature	0/0/0
PVC	50 µm dry applied directly; 7 days at room temperature	0/0/0

CHEMICAL RESISTANCE TESTS		
Nº	Chemical Product	Observation
1	Petrol	After 2 weeks discoloured surface
2	Aromatic	After 2 weeks discoloured surface
3	Alcohol	After 3 weeks swollen surface
4	Ester/ketone	After 2 weeks discoloured surface
5	Acetic acid (10%)	After 2 weeks discoloured surface
6	DETA (50%) in water	After 3 weeks matt surface
7	Nitric acid (25% in water)	After 2 weeks surface discoloured brown and destroyed
8	Sulphuric acid (36% in water)	After 3 weeks matt surface
9	Lactic acid (10% in water)	After 2 weeks swollen surface
10	Brake fluid	After 3 weeks swollen surface

Nota:

Nº 1 Petrol: 47.5 vol% Toluene; 30.4 vol% Isooctane; 17.1 vol% n-Heptane; 3.0 vol% Methanol; 2.0 vol% tert-Butanol

Nº 2 Aromatic: 60.0 vol% Toluene; 30.0 vol% o-/m-Xylene; 10.0 vol% Methyl Naphthalene

Nº 3 Alcohol: 48.0 vol% Methanol; 48.0 vol% iso-Propanol; 4.0 vol% Water

Nº 4 Ester/Ketone: 50.0 vol% Ethyl acetate; 50.0 vol% Isobutyl methyl ketone

APPLICATION:

Undercoat primer for ferric and non ferric surfaces and concrete pavement, interior and exterior is facilitating the adherence of further coats over galvanized, zinc, aluminium, PVC, some plastics, floors of concrete, etc.

INSTRUCTIONS FOR USE:

Application methods: brush, roller or spray.

Thinner and cleaning utensils: Water.

Mixing ratio: Component (A): 4 part in weight
Component (B): 1 part in weight

Painted surfaces must be dry and clean of dust, rust, grease, etc.

-) Cement, concrete: Concrete must be cured for which 1 month should have elapsed from application. The surface should have a proper roughness, so is recommending to prepare it with a grinder f diamond (or other abrasive) or shot blasting. Apply on the surface hydrochloric acid

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(HCl) diluted 10-15% to neutralize the alkalinity of the cement, and then wash it and let dry. As a primer you can use EPOXY PRIMER AQUA 2C.

Old surfaces must be strongly brushed, eliminating completely the grease and dust, as well as any other contamination.

-) Metal surfaces: Remove rusted areas by manual or mechanical brushing. Apply 2 coats of EPOXY PRIMER AQUA 2C before proceeding to paint.

In general we recommend:

-) Apply between 10 °C and 35 °C. The relative humidity should be between 20-60%.
-) Perfectly homogenize the product or shake, both the base (A) as then curing agent (B), before use.
-) Mix perfectly base and curing agent (A+B) until get a total homogeneous mixture using a mixer at low revolution. It is advisable to dilute first the component A before adding the component B for a correct homogenization. Once the you have made the mixture wait 5 minutes before applying.
-) The support must be 3 °C over the dew point. Apply only on clean, dry surfaces and with a temperature above the dew point to prevent condensation or humidity.
-) In closed areas is necessary a good ventilation conditions during application and drying.
-) Ventilation is essential to ensure good circulation of air in the area to paint during application and drying. Otherwise the curing of the product and the final characteristics of the same (gloss, chemical resistance, etc.) may be seriously affected. We recommend a speed of airflow between 0.1 and 0.5 m/sec.

PRESENTATION:

Plastic packaging: Component (A): 3 Kg.
 Component (B): 0,750 Kg.

STORAGE:

12 months in closed original container under roof and temperatures between 5 °C and 35 °C and protected from the weather.

ADDITIONAL INFORMATION:

The information contained in this document serves as a guide for the user but does not constitute a guarantee. For information about safety and the environment, please refer to the Safety Data Sheet.

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