



TECHNICAL INFORMATION

DECO-EPOXY AQUA 2C



DESCRIPTION:

Epoxy waterborne paint bi-component cured with polyamide, for protection of floors of concrete, metal structures, etc.

Features:

-) Excellent adherence to concrete and metal substrates.
-) Film coat hard, waterproofing, elastic and highly resistant.
-) High resistance to chemical attacks (acids, alkalis, oils, etc.)
-) High mechanical resistance.
-) Anti-dust performance for concrete floors.
-) Free of solvents.
-) Interior use.

TECHNICAL DATA:

Fixed vehicle	Epoxy-polyamide resin	
Colour	White, red oxide (Ral 3009 approx.), grey (Ral 7004), green (L050 Nova approx.) and colourless. Deco-Color System.	
Gloss	Satin. Colourless: Gloss.	
Solids by weight (A+B)	63 % Colours 46 % Colourless	UNE-EN ISO 3251
Solids by volume (A+B)	50 % Colours 43 % Colourless	UNE 48090
Specific weight (A+B)	1.30 Kg./l (23 ± 2 °C) Colours 1.05 Kg./l (23 ± 2 °C) Colourless	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)	Colourless: 7.5 – 9 m ² /Kg. Take in mind application leaking, surface irregularities, etc. Colours: 5 – 7 m ² /Kg. and coat. Take in mind application leaking, surface irregularities, etc.	
Total performance (A+B)	Colours: 2.5 – 3.0 m ² /Kg.	
Recommended thickness	100 – 125 microns wet; 50 – 60 microns dry per coat. Apply 2 to 3 coats as a finish.	
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.	
Traffic	48 – 72 hours	
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.	

Pinturas Decolor

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Repaint	24 – 48 hours maximum.	
Solvent	Water	
Reaction to fire	Class M-1	UNE 23727
Reaction to fire	B _f s1	UNE-EN 13501-1:2007
Traction adherence (cement board/7 days at 23 °C/100 $\uparrow$ m dry)	> 5 N/mm ²	UNE-EN ISO 4824
Taber abrasion resistance	62 mg (CS-17 - 1Kg. - 1000 cycles)	UNE-EN ISO 7784-2
Persoz Hardness	174 seconds (200 $\uparrow$ m wet / 7 days at 23 °C)	UNE-EN ISO 1522
Slipperiness test	Class 1	UNE ENV 12633:2003 Annex A

EU limit value for this product (cat. A/j): 140 g/l (2010). Max. content VOC: 15 g/l

Table of resistance against chemical products							
	1 day	3 days	1 week	2 weeks	1 month	2 months	3 months
Deionised water	R	R	R	R	R	R	R
hydrochloric acid 20%	R	R	R	R	R	D	
acid HCL conc.	R	A	D				
sulphuric acid 50%	R	R	R	R	R	R	A
ammonia conc.	R	R	R	R	D		
Xylene	R	R	R	R	R	R	R
ethanol 95%	R	A	A	A	D		
ethanol 50%	R	A	A	A	D		
acid acetic 10%	A	D					
acid acetic 5%	R	A	D				
sodium hypochlorite	R	R	R	R	R	R	R
brake fluid	R	R	R	A	A	A	A

R: resistant; A: attacked; D: destroyed

APPLICATION:

Maximum performance protection of concrete floors and metal surfaces (ships, vessels, tanks, industrial, warehouses, car parks, supermarkets, parking lots, etc.), where is required a high resistance to chemical and mechanical attack, no emission of solvents during application and curing. It is suitable for treatment anti-dust making dirt will not stick to floor.

INSTRUCTIONS FOR USE:

Application methods: brush, roller or spray.
Thinner and cleaning utensils: Water.

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

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Colourless mixing ratio: Component (A): 3 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 (HCl) diluted 10-15% to neutralize the alkalinity of the cement, and then wash it and let dry. As a primer you can use DECO-EPOXY AQUA 2C colourless. As a alternative you can apply a first coat diluted to 15% with the same product DECO-EPOXY AQUA 2C. After 24 hours, apply subsequent layers of DECO-EPOXY AQUA 2C by diluting a maximum 5% with water.

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 PRIMER EPOXY ANTICORROSIVE AQUA before proceeding to paint. Apply after 2 coats diluted between 5-10% with water.

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 cover 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. 12 Kg. colours
 Component (A): 9 Kg. colourless
 Component (B): 0,750 Kg. 3 Kg.

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Colours: 3 Kg. (A) + 0.750 Kg. (B)
12 Kg. (A) + 3 Kg. (B)

Colourless: 9 Kg. (A) + 3 Kg. (B)

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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