EPODUX IM 209

"Tolerant " High Build Epoxy

DEFINITION

High build epoxy coating tolerant to humidity.

INTENDED USES

Protection of metal structures in open air or immersed in freshwater, seawater or brackish water :
- Locks,
- Jetties,
- Sheet piles,
- Stakes,
- Pipes,
- Water treatment plants (please contact our technical department),...

PRINCIPAL CARACTERISTICS

- Good adherence on cold or damp surfaces (non dripping) : this feature enables to coat active forced ducts without any losses associated with maintenance interruptions.
- Applicable in thick layers (600 microns, no sagging).
- Good anti corrosion protection.
- May be immersed 30 min after coating (polymerisation under water).
- Over 1500 colour tints possible with our "Industry" tinting machine system.

Notes :
- The film properties, excluding the colour, are not affected by actinic radiation.
- A change of tint (whitening) may occur during immersed polymerisation; the other characteristics of the coating remain unchanged.

CERTIFICATIONS / APPROVALS

ACQPA	:	Brand ACQPA 35511 Is used in the following certified systems : Im2 ANI 950, Im2 ANI 1232, Im2 ZNI 1284 and C5GNV 866
EDF	:	Is used in the following systems registered in the FNP under numbers 1036, 1050, 1054,1065, 1066, 1067 and 1095.
RTE	:	Is used in the waterproofing paint system referenced IMP-3.

TECHNICAL DATA

Gloss level	: Satin
Colours	: Beige, White, Light Grey, Black, according to RAL / AFNOR
Number of components	: 2
Mix ratio, by weight	: 83/17
Mix ratio, by volume	: 74,5/25,5
Specific gravity	: 1,55 +/- 0,05 g/cm³
Solids volume	: 85,00 +/- 3%
Solids weight	: 90,15 +/- 2%
Typical thickness (dry)	: from 50 to 400 µm
Typical thickness (wet)	: from 60 to 470 µm
Theoretical spreading rate	: 16,7 m²/l for 50 µm dry and 2,1 m²/l for 400 µm dry

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INSTRUCTIONS

SURFACE PREPARATION

New steel « heavy duty use »

Abrasive blast cleaning at Sa 2 ½ according to ISO 8501-1 : 2007.Roughness profile : Mid G according to ISO 8503-2 (Ra 10-12,5 µm).

High pressure water jet cleaning (UHP) at Wa 2 1/2 - according to ISO 8501-4 : 2006.

Galvanized steel :

Fine abrasive brushing or pickling with METONET followed by clear water rinsing.

Metallization :

The substrate will be in accordance with standard NF EN ISO 2063. In case of damage or defects observed on the surface please refer to the recommendations of the standard NF EN ISO 12944-4.

Concrete :

Concrete : in compliance with recommendations set forth in DTU 59-3 and DTU 54-1 concerning the preparation and quality of flooring before painting operations : dry surface, clean, free of all marks of pollution, no rising damp and showing sufficient roughness to enable the coating to adhere.

Aluminium - Stainless steel

The surface can be abraded manually or by machine, the performance of the coating will be improved by blasting with a non-metallic abrasive.

APPLICATION

Mixing : The product is sold as pre- prepared kits. For the hardener portion in the base coat container and mix. Take care not to create air bubbles. The minimal recommended temperature of the mixture must be at least 15°C, or a thinner may be required in order to achieve adequate viscosity. Please note that an excessive amount of thinner may induce a dripping phonomenon.

Induction time : None

Working pot life :

Temperature	Time
10°C	1h30
20°C	1 hour
30°C	30 minutes

Substrate temperature : Between +3°C and +40°C

Weather conditions : The temperature should be between 7°C and 45°C
The relative humidity should be between 0% and 100%

Technical note : Do not keep the spraying equipment loaded for longer than the pot life of the product in a container. Rinse the equipment with the 67-232 v02 thinner and rinse thoroughly with a cleaning solvent. The container containing the prepared and unused mixture must not be hermetically sealed. In case of prolonged interrupted use, it may be preferable to prepare a new kit.

AIRLESS SPRAY

Thinner : 67-232 v02
Dilution : 0 to 25 %*
Nozzle : 0.019-0.023
Pressure at nozzle : 250-300 bars
Report pump Min: 60 / 1

AIR SPRAY

Not applicable

BRUSH

Thinner : 67-232 v02
Dilution : 0 to 5 %
Thickness achievable after several passes

ROLLER

Thinner : 67-232 v02
Dilution : 0 to 5 %

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Thickness achievable after several passes

*The maximum dilution rate is reserved for application to metalized substrate when EPODUX IM 209 is used as tie coat.

CLEANING SOLVENT : 67-232 v02

EPODUX IM 209

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CURING TIME

	Drying time		Overcoating interval	
Temperature	Touch dry	Hard dry	Minimum	Maximum
10°C	14 hours	24 hours	16 hours	not critic.
20°C	5 hours and 30 mn	5 hours and 30 mn	4 hours and 30 mn	not critic.
30°C	3 hours	4 hours	3 hours	not critic.

COMPATIBILITY

Previous coat(s)	Itself, EPODUX IM 213, PRIMODUX H, PRIMODUX SR 74-31, EPODUX ZINC 62-208, EPODUX ZINC 57-35, EPODUX PRIMER 61-134 v01, EPODUX IM 209 GF, EPODUX IM 213, STRIAFORM.
Subsequent coat(s)	Itself, EPODUX IM 213, POLYSTRIA v01, POLYSTRIA HES, FERROTHANE, STRIAFORM.

REGULATORY SPECIFICATIONS

AFNOR RATING	AFNOR NFT 36 005 rating Family I Class 6b
VOC (Directive 2004/42/EC)	EU limit value for this product (cat. A/j) : 500 g/l (2010) This product contains max 310 g/l VOC

HEALTH AND SAFETY

Flash point	BASE : Greater than 61°C HARDENER : Greater than 61°C
Transport and labelling	Getting closer to the safety data sheet prepared in accordance with current European Directives
Shelf life	3 years in original full, sealed packaging. Store in a cool, ventilated place.
Precautions	Refer to the current material safety data sheet

PACKAGING

KIT	BASE	HARDENER
1 l	0.75 l	0.25 l
4 l	3.00 l	1.00 l
15 l	11.20 l	3.80 l

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