7N-165 C-POX® ST165 MP-WN

Surface Tolerant Multifunctional Epoxy Coating

Revision: February 2018

PRODUCT DESCRIPTION

C-Pox Primer ST165 MP-WN is an universal surface tolerant epoxy. Its main properties are:

- Can be applied over manual cleaned steel surfaces.
- Can be applied as primer or intermediate coat (multipurpose).
- Due its high wetting, it has excellent edge coverage.
- Good corrosion protection in salt and fresh water immersion and corrosive chemical environments.
- Can be applied over rust surfaces If it is well adhered.
- Suitable with surfaces water jetted, according NACE nº 7-VIS-4 (I).
- Good adherence over concrete and aluminium.
- Compatible with a wide range of coat systems.
- Low temperature cure (-15ºC) without additives or alternate curing agents.
- Fast dry-to-recoat and rapid handling properties.
- It can be immersed after 30 minutes of its application.
- High-build (200 - 300 microns in one coat).
- Abrasion resistant.
- Complies with the Norm UNE 48-278.2005.
- It is alternative to Coal Tar epoxy.
- Product with CE marking.

INTENDED USES

Specially formulated as high performance coat, to protect steel structures, industrial installations, bridges, exterior of tanks, deposits, piping and water condensation areas, marine weathering, etc.
Can be applied over wet surfaces.
Excellent product for bridges maintenance or floodgates protection.
It can be used for concrete protection in water immersion.

PROPERTIES

Finish	Semi-gloss
Colour	Grey and oxide red
Components	2
Mixing ratio (volume)	Resin 7N-166 4 parts Cure 7N-167 1 part
Pot-life	5 hours at 20ºC
Volume solids	88% (ISO 3233) Slight variations ±3% may occur due to colour and testing variances.
Specific weight	1,52 g/L

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Dry film thickness 100 – 300 µm per coat

Number of coats 1 – 2

Application method Airless or conventional spray. Bruch or roller may require additional coats

Theoretical coverage 8,8 m²/L at 100 µm
Allow for application losses, surface irregularities, etc.

Drying times 200 µm:

	32ºC	20ºC	10ºC	0ºC
To couch	1 hr	2 hrs	2 hrs	6 hrs
Dry through	5 hrs	8 hrs	15 hrs	3 days
Cure to immersion	3 days	7 days	7 days	7 days
Topcoat Min. (hours)				
C-Pox ST165 MP	3	4	6	24
C-Thane S700 HB	4	9	12	36
Topcoat Max. (months)				
C-Pox ST165 MP	7	7	7	7
C-Thane S700 HB	4	4	4	4

Drying times are dependent on temperature, ventilation and film thickness.

SURFACE PREPARATION

Steel – Remove all dirt, grease or other contaminants by one of the following depending on the degree of cleanliness required. The choice of surface preparation will depend on the system selected and end-use service conditions.
For more severe service and immersion, clean to Sa 2½ ISO 8501-1. Blast to achieve an anchor profile of 50 – 75 microns.
Water Jetting - Must be water blasted to high pressure NACE N.0.5/SSPC-SP12WJ-2L/SC1.The wet surface can be dried by blowing with dry compressed air giving special attention to horizontal surfaces and recesses.
Abrasive wet blasting according to SSPC VIS 5 /NACE VIS 9 to minimum degree CWAB-6 DWAB-6 (equivalent to Sa 2), advisable CWAB-10 DWB-10 (equivalent to Sa 2 1/2).

Aluminium – Remove oil, grease or soap film with neutral detergent or emulsion cleaner. Blast lightly with fine abrasive.

Concrete – Light abrasive blast to remove all chalk, and surface glaze or laitance. If blasting is not possible, acid etch uncoated concrete to obtain a glaze-free surface with a slightly granular texture. Rinse with clean water and allow to dry thoroughly. After blasting or acid etching, fill a small holes or voids with material.

Aged coatings – All surfaces must be clean, dry, tightly bonded and free of loose paint, corrosion products or chalky residue. Abrade or clean the surface. C-Pox ST160 MP-WN is compatible over most types of properly applied and tightly adhering coatings, however a test patch is recommended to confirm compatibility.

Repair – Prepare damaged areas to original surface preparation specifications, feathering edges

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of intact coating. Thoroughly remove dust or abrasive residue before touch-up.

APLICATION

Add cure to resin solution and stir material for 5 minutes. In confined areas ventilate with clean air Turing application and drying until solvents are removed.

Environmental applications

Air temperature	-7 to 50ºC
Material temperature	10 to 27ºC
Minimum surface temperature	3ºC above dew point

Application Equipment:

Conventional spray	Recommended
Fluid tip orifice size	0,055 – 0,070 inches (1,39 – 1,77 mm)
Air pressure	3,5 – 5,3 kg/cm²
Fluid pressure	0,7 – 1,7 kg/cm²
Thinning	0 – 10 %

Airless spray	Recommended
Fluid tip orifice size	0,015 – 0,019 inches (0,38 – 0,48 mm)
Fluid pump	30 : 1
Fluid pressure	150 – 170 kg/cm^2
Thinning	0 – 5 %

Thinner	7S-902 (CP-40)
Cleaner	7S-902 (CP-40)

ADDITIONAL INFORMATION

Curing mechanism – By solvent release and reaction between components

Volatile Organic Compounds (COV)
EU limit for this product (cat. A/j): 500 g/L
This product contains max. 224 g/L VOC. (TVOCC: 15%) *)
Supplying form: <160 g/L (TVOC: < 11%)
VOC Resin: 168 g/L (TVOC: 11%)
VOC Cure: 130 g/L (TVOC: 13%)
VOC Thinner: 863 g/L (TVOC: 100%)
VOC Cleaner: 863 g/L (TVOC: 100%)

*) The VOC value shown above refers to a ready for use product, as tinted, thinned, etc in accordance with our recommendations. We are not responsible for products obtained by mixing products with are different from those we have recommended and we must draw attention to the responsibility of anyone involved within the supply chain not to infringe Directive 2004/12/CE.

Flash Point (Closed Cup)

Resin	24ºC
Cure	37ºC
Thinner	16ºC
Cleaner	16ºC

Packaging

Resin	16 L
Cure	4 L

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Storage
Stored indoors in original containers at 5 to 40ºC, Resin: 2 years, Cure: 1 year.

PAINT SYSTEMS

Steel
C-Pox ST165 MP-WN can be applied directly over surface or over zinc or zinc phosphate epoxi primers.

Concrete
Apply 2 coats of C-Pox ST165 MP-WN

In immersion situations, over steel or concrete, must be applied 2 – 3 coats with a minimum total dry thickness of 400 µm.

APPROVALS AND CERTIFICATES

C-Pox ST165 MP WN complies the Norm 48278:2005 (Coaltar free high build epoxi coating).

Corrosive category C4 according EN ISO 12944-6, high durability, for the paint system:
C-Pox ST165 MP-WN 100 µm
C-Thane S700 HB 100 µm

C-Pox ST165 MP-WN is certified by PEMEX according to standard NRF 053 RI - 41

CE MARKING

CE Marking of this product is the evidence given by CIN that this product is subject to the provisions of Community Directives of the Construction Products that are applicable (European Regulation nº305/2011 and the European Standard EN 1504-2. “Products and Systems for the protection and repair of concrete structures. Principle 5. Physical resistance / Surface improvement. This product conforms to the requirements of Annex ZA of that that standard and have CE

CE	
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EN 1504-2	
Products for the superficial protection Physical resistance	
Abrasion resistant	< 2 g
Impact resistance	≥10 Nm (Class II)
Water permeability	w < 0,1 kg/($m^2h^{0,5}$)
Traction adherence	> 2,0 N/mm^2
Dangerous substances	Complies with a 5.3 clause of EN 1504-2 Norm.

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HEALTH, SAFETY AND THE ENVIRONMENT

Protect the eyes and skin from contact, gloves, goggles and appropriate clothing should be worn. Keep out of the reach of children. Use only in well ventilated areas. Do not empty into drains. Keep the container properly sealed and stored in the correct place. Take correct measures when transporting the product so as to avoid any accidents that could rupture the can or cause damage to the packaging. Ensure that the container is correctly stacked in a safe area. Do not store or use the product in extreme temperature conditions. Always take account of the appropriate legislation relating to the environmental and Health and Safety at Work.
For more information it is essential to read the label on the container and the product MATERIAL SAFETY DATA SHEET of this product, its components and all complementary products referred on Technical Data Sheet.

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