

# SUBOX E

CATALYZED ZINC PHOSPHATE EPOXY PRIMER

Technical Data Sheet

SPECIFICATIONS	TEST METHODS			
	NOM or NMX	ASTM	ISO	
No of Components	2	--	--	--
Mixture Ratio	4:1 in volumen	--	--	--
Thinner	MT-571	--	--	--
Theoretical Yield (at 1 mils.)	15.00 m <sup>2</sup> /L minimum	--	--	--
Finish	N/A	--	--	--
Adherence	5B	NMX-U-065-SCFI-2011	D-3359	--
No. Of coats	2	--	--	--
Recommended dry film thickness per coat	3 mils. minimum	--	--	--
Recommended wet film thickness per coat	6 – 7 mils.	--	D-4414	2366 2808
Salt Spray	300 hours minimum	--	B-117	9227
Mixture density at 25°C	1.260 – 1.350 g/cm <sup>3</sup>	NMX-C-454-ONNCCE-2007	D-1475	2811-1
Viscosity (Brookfield) at 25°C	650 Cps. minimum	NMX-U-038-SCFI-2012	D-2196	--
Accelerated weathering	N/A	--	G-23	11507
VOC's	N/A	NOM-123-ECOL-1998	D-3960	17895
Fineness (Hegman unit)	N/A	NMX-C-456-ONNCCE-2007	D-1210	1524
Temperature resistance	Continuous	93°C	--	--
	Not continuous	121°C	--	--
Dry rate to touch at 25°C	4 hours maximum	NMX-C-427-ONNCCE-2003	D-1640	9117-1
Dry rate to handle at 25°C	24 hours maximum	NMX-C-427-ONNCCE-2003	D-1640	9117-1
Refinish or top coat	20 horas	NMX-C-427-ONNCCE-2003	D-1640	9117-1
Solids in weight	62.0 - 69.0%	NMX-C-425-ONNCCE-2003	D-2369	3251
Solids in volume	40% minimum	NMX-C-425-ONNCCE-2003	D-2697	3233
Pot life	8 hours	--	--	--

## Characteristics

Epoxy resin based coating (Epoxy component) which hardens by adding a polyamide component, separately packaged. The mix ratio has to be 4 parts of the epoxy component, to 1 polyamide component in volume. Has adhesion and humidifying properties, as well as resistance to a humid environment with or without salinity and gases derived from sulfur and untreated distillates. Its resistance to aromatics is regular.

## Uses

This coating is recommended to be applied over iron and steel metal surfaces previously cleaned with metal abrasive. Protects Steel or concrete tanks containing water, alkaline solutions, saline and other chemical substances, petroleum, fuel, and sewage waste, masonry, etc.



## Systems

Systems	Description
1	SUBOX E + SUBALOX U
2	SUBOX E + SUBALOX E
3	SUBOX E + SUBALOX E AS
4	SUBOX E + SUBALOX U SR

## Surface Preparation

When applied over metal, round welds and Sharp points, eliminate welding spatter, torch with dry abrasive commercial, abrasive silica sand should have a 30-60 mesh grade.

When applied over concrete, clean the surface by removing previous drying paints and other contaminants.

## Application

Spray application should be made at 30cm away from substrate to obtain the specified thickness. It must be carried out in a ventilated place. The coating should not be applied when the environment temperature is below 227 K (4°C) or above 316K (43°C). Apply at a relative humidity below 85%.

## Colors

According to user needs and color coordinates.

CHEMICAL RESISANCE			TEST METHOD
Chemical agent	Vapor and fumes	Spills and splashes	
Acids	Good	Regular	ASTM G-20
Alkyds	Excellent	Excellent	ASTM G-20
Solvents	Regular	Regular	ASTM G-20
Salts	Excellent	Excellent	ASTM G-20
Water	Excellent	Excellent	ASTM G-20



## Application Equipment

### Airless Spray <sup>(1)</sup>

Spray Gun	Pump
De VilBiss model JGA-507	Qfa 514 32:1
<sup>(1)</sup> Use nozzle with an inner hole from 13 to 17 mils of internal diameter (I.D.)	

### Conventional Equipment Spray <sup>(2)</sup>

Spray gun	Nozzle	Tip
De VilBiss model JGA-510	EX	704
<sup>(2)</sup> Use a hose with 3/8 of inch of internal diameter (I.D.)		

### Application by brush

Brush
De VilBiss

### Application with roller

Roller
De VilBiss

\* To clean the application equipment; use the dilution solvent.MT-571.

## Mixture Ratio

Equipment	Solvent
Airless spray	Not used. If necessary, use maximum of 10% thinner MT-571.
Conventional Spray	Use from 20-30% thinner of MT-571.
Application with roller or Brush	Use maximum of 10% of MT-571.
* To calculate the materials, consider shrinkage of 10-20%, depending on surface condition and form of application.	

## Storage Conditions

In closed containers, indoors, at a temperature not exceeding, 40°C, and relative humidity not exceeding 80%.

## Handling Safety

This product contains highly flammable solvents. Its vapors are toxic. Avoid contact with skin, eyes (splashes), and continuous inhalation. The application should be in well-ventilated areas away from the heat. When applying consult and follow the safety rules stated in the product safety sheet.

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### Notes

We guarantee the quality of our products according to our general conditions of sales and delivery. Our technicians use tips expressed verbally, in writing, or by testing's. These are offered according to our current knowledge and experience, therefore you will have to make your own experiment and tests. The application and use of the product are beyond our control, and therefore rely exclusively on personal responsibility. For more information, please contact our technical department at the following telephones: 5650 5089, 5650 5238 and 5657 2784.