THERMOX E

MODIFIED EPOXY COATING FOR HIGH TEMPERATURES

Technical data sheet

SPECIFICATIONS		TESTING METHODS		
		NOM ó NMX	ASTM	ISO
Number of components.	2	--	--	--
Ratio (Mixture) Part A: Part B	2:1 in volumen 75103-T:75004-C	--	--	--
Thinner	MT-571	--	--	--
Theoretical Yield (@ 1 mil)	19.3 m^2/L minimum	--	--	--
Appearance	Semi- bright	--	--	--
Adherence	5B	NMX-U-065-SCFI-2011	D-3359	--
Recommended DFT per coat	3 mil – 4 mil	--	D-7091	2178
Recommended WFT per coat	6 mil – 8 mil	--	D-4414	2366 2808
Density (Mixture) @ 77°F (25°C)	1.330 - 1.400 g/cm^3	NMX-C-454-ONNCCE-2007	D-1475	2811-1
Viscosity (Mixture) (Brookfield) @77°F (25°C)	1650 - 3500 cps	NMX-U-038-SCFI-2012	D-2196	--
Temperature resistance in oil immersion	Continue 221°F (105°C)	--	--	--
Touch dry time @77°F (25°C)	1 h maximum	NMX-C-427-ONNCCE-2003	D-1640	9117-1
Hard drying time @77°F (25°C)	24 h maximum	NMX-C-427-ONNCCE-2003	D-1640	9117-1
Solids (Mixture) in weight	60.0% minimum	NMX-C-425-ONNCCE-2003	D-2369	3251
Solids (Mixture) in volume	49% minimum	NMX-C-425-ONNCCE-2003	D-2697	3233
Pot life @77°F (25°C)	8 h	--	--	--

Characteristics

Coating made of modified epoxy resins having chemical resistance to solvents and oil dielectric (insulator), with hardness and flexibility characteristics.

Usage

This coating is recommended for steel with excellent resistance to exposure conditions in a salty environment, humid with or without salinity and sulfur gases derived from marine to continuous immersion untreated distilled, potable water tanks, interior load inside vessels or transformers, and greater temperature resistance than conventional epoxies.

Systems

System	Description
1	THERMOX E

Surface Preparation

The surface on which is to be applied requires a good cleaning of the surface, which must be free of contaminants such as oil, grease, dirt, abrasive detergents, etc. It requires surface cleaning abrasive to White Metal (SSOC-SP 5).

Application

For spray application it must be done 12 in (30 cm) from the substrate to obtain the specified thickness. The application should be done in open and ventilated spaces. The coating should not be applied when the ambient temperature is below 39.2°F (4°C) or superior to 109.4°F (43°C). Apply at a relative humidity less than 85%.

Colors

White

CHEMICAL RESISTANCE			TESTINTG METHOD
CHEMICAL AGENT	FUMES AND STEAMS	SPILLS AND SPLASHES	
Ácids	Good	Good	ASTM G-20
Alcalis	Good	Good	ASTM G-20
Solvents	Good	Good	ASTM G-20
Salts	Excellent	Good	ASTM G-20
water	Excellent	Excellent	ASTM G-20

Application Equipment

Airless Aspersion [1]		
Code	Pistol	pump
CFE-SA	De VilBiss modelo JGA-507	Qfa 514 32:1
[1] Use nozzle with a inner hole from 13 to 17 mil of internal diameter (I.D.)		

Aspersión con equipo convencional [2]			
Code	Pistola	Nozzle	Tip
CFE-CA	De VilBiss modelo JGA-510	FX	704
[2] Use a hose with 3/8 of inch of internal diameter (I.D.)			

Application with brush	
Code	Brush
CFE-AB	Does not apply

Application with roller	
Code	Roller
CFE-AR	Does not apply

* To clean up the application equipment, use the dilution solvent MT-571.

Dilution Ratio Based on Equipment

Equipo	Solvente
Airless spray	Not used or in needed case, maximum 10% thinner MT-571***
Aspersion with conventional equipment	Utilizar de un 20 - 30% de adelgazador MT-571****
Application with roller or brush	Does not apply

** To calculate materials consider shrinkage 10-20% depending on the surface condition and the conditions of application.
*** Until you obtain a viscosity of 25 to 30 seg. in Copa Ford No. 4 @ 25ºC (77°F)
****Until you obtain a viscosity of 18 seg. In Copa Ford No. 4 @ 25ºC (77°F)

Storage Conditions

Closed lid containers, under roof and a temperature under 104ºF (40ºC) under 80% relative humidity

Security Management

This product contains highly flammable solvents, steams are toxic, avoid contact with skin, eyes (splash) and continuous inhalation. Its application should be in well- ventilated places away from fire. When applying consult and follow the safety regulations indicated in the product safety sheet.

Remarks

We guarantee the quality of our products according to our general conditions of sales and delivery. Our technicians use tips expressed verbally, in a written way or by testing, these are offered according to our current knowledge and experience, so you will have to make your own tests and experiments. The application and use of products are beyond our control, and therefore rely exclusively on personal responsibility. For more information please contact the technical department advisers in Mexico +52 55 5650 5089, +52 55 5650 5238 and +52 55 5657 2784.