PEMEX RA-28

POLYURETHANE TOPCOAT

Technical Data Sheet

PEMEX No. 4.411.01

"Coatings for anticorrosive protection"

SPECIFICATIONS		TESTING METHOD			
		PEMEX 4.411	NOM or NMX	ASTM	ISO
Number of components	2	--	--	--	--
Ratio (Mixture) Part A: Part B	3:1 in volume 64XXX : 64010-C	--	--	--	--
Thinner	MT-170	--	--	--	--
Theoretical yield (@ 1 mil)	16.5 m^2/L minimum	4.19	--	--	--
Appearance	Bright	--	--	--	--
Adherence	5B	MP-3	--	D-3359	--
Recommended DFT per coat	1.5 - 2 mil	--	--	D-7091	--
Recommended WFT per coat	6.5 mil	--	--	D-4414	2366 2808
Density (Mixture) @77°F (25°C)	1.000 g·cm^{-3} – 1.300 g·cm^{-3}	MP-7	NMX-C-454-ONNCCE-2007	D-1475	2811-1
Viscosity (Brookfield) @ 77°F (25°C)	160 cps – 300 cps	MP-8	NMX-U-038-SCFI-2012	D-2196	--
Touch dry time @77°F (25°C)	2 hours maximum	MP-1	NMX-C-427-ONNCCE-2003	D-1640	9117-1
Hard drying time @77°F (25°C)	24 hours maximum	MP-1	NMX-C-427-ONNCCE-2003	D-1640	9117-1
Solids (Mixture) in weight	45% minimum	--	NMX-C-425-ONNCCE-2003	D-2369	3251
Solids (Mixture) in volume	42% minimum	--	NMX-C-425-ONNCCE-2003	D-2697	3233
Pot life @77°F (25°C)	4 hours	--	--	--	--

Characteristics

It refers to a finishing coating based on a polyisocyanate component coloring and inert pigments that hardens by adding a chemical reagent based on resins with free hydroxyl groups packaged seperately in a proportion of 3 to 1 by volume.

Usage

It provides a glossy, fast-drying, hard, waterproof finish with good flexibility and adhesion. Its resistance to chemical agents is limited to mild conditions but it also exhibits good resistance to abrasion, impact and exposure to saline environments. It is excellent when exposed to the elements.

Systems

System	Description	Exposure Conditions
1	RP-2 vinyl alkyd zinc chromate primer + RA-28 polyurethane finish.	Humid environment.
2	RP-6 catalyzed epoxy primer + RA-28 polyurethane finish.	Humid environment. Environment with or without salinity and sulfur-derived gases. Marine environment and exterior of vessels (Deck).
3	Modified vinyl epoxy primer RP-7 + RA-28 polyurethane finish.	Exterior of boats (Booth).

Application

For spray application it must be done 12 in (30 cm) away from the substrate to obtain the specified thickness. The application should be done in open and ventilated places. The coating should not be applied when the ambient temperature is below 50°F (10°C) or superior to 104°F (40°C). Apply at a relative humidity less than 85% or when the substrate temperature is greater than 37.4°F (3°C) above the dew temperature.

Colors

According to needs and color coordinates.

CHEMICAL RESISTANCE		TEST METHOD
Chemical Agents		
5% nitric acid	Pass	ASTM G-20
20% dodium chloride	Pass	ASTM G-20
Extra gasoline	Pass	ASTM G-20
Distilled water	Pass	ASTM G-20
Sea water	Pass	ASTM G-20
Sulfuric acid vapors and condensates	Pass	ASTM G-20

Application Equipment

Airless Spray Equipment

Conventional Spray Equipment

* To clean used application equipment use dilution solvent MT-170.

Dilution Ratio Based on Equipment

Equipment	Solvent
Airless spray	It does not carry or if necessary use a maximum of 10% of MT-170 solvent.
Conventional Equipment	Use 20 - 30% of MT-170 solvent.
* For the calculation of materials consider 10%-20% losses depending on the state of the surface and the application conditions.	

Storage Conditions

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

Handling Safety

This product contains highly flammable solvents; its vapors are toxic, avoid contact with skin, eyes (splashes) 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 the general sales and application guidelines, our technical use method advice, verbally expressed and written and scenarios. Where conducted as part of our research, therefore we suggest you conduct your own lab and field test. The application and the terms on how you use our products are out of the reach of our control; therefore, you are responsible for any results. For more information call our technical advisers in Mexico +52 55 5650 5089, +52 55 5650 5238 and +52 55 5657 2784.