

SUBALOX U AS

HIGH SOLIDS MODIFIED POLYURETHANE TOPCOAT

Technical Data Sheet

SPECIFICATIONS	TESTING METHOD			
		NOM or NMX	ASTM	ISO
Number of components	2	--	--	--
Mixing ratio	4:1 in volume	--	--	--
Part A: Part B	63XXX:63030-C	--	--	--
Thinner	MT-170/MT-800	--	--	--
Theoretical yield (at 1 mils.)	17.70 – 19.60 m ² /L	--	--	--
Topcoat	Bright	--	--	--
Adherence	5B	NMX-U-065-SCFI-2011	D-3359	--
No. of layers	2	--	--	--
Recommended Dry Thickness Per Coat	2 – 3 mil	--	--	--
Recommended Wet Thickness Per Coat	4 – 6 mil	--	D-4414	2366 2808
Saline Chamber	1000 hours minimum	--	B-117	9227
Density (mixture) at 25°C (77°F)	1.000 g/cm ³ minimum	NMX-C-454-ONNCCE-2007	D-1475	2811-1
Viscosity (Brookfield) at 25°C (77°F)	400 – 800 Cps.	NMX-U-038-SCFI-2012	D-2196	--
Accelerated weathering	2000 hours minimum	--	G-23	11507
COV's, (VOC's)	380 g/L	NOM-123-ECOL-1998	D-3960	17895
Fineness of Fineness (Hegman Unit)	6 minimum	NMX-C-456-ONNCCE-2007	D-1210	1524
Temperature Resistance	Continue	93°C	--	--
		(199.4°F)	--	--
	Do Not	121°C	--	--
	Continue	(249.8°F)	--	--
Time to dry to touch at 25°C (77°F)	1 hour maximum	NMX-C-427-ONNCCE-2003	D-1640	9117-1
Time to dry to hard at 25°C (77°F)	24 hours maximum	NMX-C-427-ONNCCE-2003	D-1640	9117-1
Cure time at 25°C (77°F)	--	NMX-C-427-ONNCCE-2003	D-1640	9117-1
Mixed solids in weight	62 – 67%	NMX-C-425-ONNCCE-2003	D-2369	3251
Mix solids in volume	45 – 50%	NMX-C-425-ONNCCE-2003	D-2697	3233
Mix life at 25°C (77°F)	8 hours maximum	--	--	--

Characteristics

Coating made from urethane resins, isocyanates, pigments, additives, etc. It is a modified high solids product that has excellent chemical resistance to solvents and staining. Has excellent hardness and flexibility characteristics. Is a product that shows excellent color retention during long periods of service adheres perfectly to steel and concrete providing a durable and easy to clean flooring system. This product was modified with additives which increases the resistance of this product resulting in a different appearances from conventional polyurethanes lowering the gloss to 80-85% and leaving a slightly rough appearance, but achieving excellent resistance to abrasion that is not achieved with a conventional polyurethane. The product can be supplied with the same physical and chemical resistance characteristics but with non-slip properties.

Uses

This coating is recommended for use on structural steel for industrial and architectural use, tanks and pipes, water treatment plants, electrical, pulp and paper, chemical, petrochemical, food and beverage, exterior of railway cars and interior of hoppers, structural steel for bridges, industrial and architectural concrete walls and floors.



Systems

System	Description
1	GALVANOX I + SUBALOX U AS
2	GALVANOX II + SUBALOX U AS
3	SUBALOX E AP + SUBALOX U AS
4	SUBOX E + SUBALOX U AS
5	SUBOX E AR + SUBALOX U AS

Surface Preparation

The primer on which it is going to be applied must be completely cured and dry, free of dust, grease, oil and humidity. If applied directly to the surface it must be free of contaminants such as oils, grease, dust, abrasives, detergents, etc. Since otherwise por adhesion is obtained on properly phosphated surfaces excellent adhesion is obtained.

This product should not be applied when the relative humidity is greater than 70% and the temperature is less than 15°C (69°F). If it's necessary to apply under these conditions the ideal would be to bake at a temperature of 80°C(176°F) for 30 minutes to ensure drying.

The product should not be applied under any circumstances when the surface temperature is greater than 50°C (122°F).

Application

For spraying application should be done at 30 cm distance from substrate to obtain specified film thickness. The application should be done in open and ventilated spaces. The coating should not be apply when the environment temperature is inferior to 4°C (39.2°F) (277K) or superior to 43°C (109.4°F) (316K). Apply at a 85% relative humidity.

Colors

According to needs and color coordinates.



Application Equipment

Airless Sprayer

Sprinkling With Conventional Equipment

Brush Application

Roller Application

* To clean application equipment, use dilution solvent MT-170/MT-800.

Mix Ratio According to Equipment Used

Equipment	Solvent
Airless spray	It does not carry or if necessary maximum 10% of MT-170/MT-800 thinner.
Conventional Spraying Equipment	Use 20 - 30% of MT-170/MT-800 thinner.
Brush or Roller Application	Use maximum of 10% of MT-170/MT-800 thinner.

* To calculate material consider a 10-20% tare depending on surface and application conditions.

Storage Conditions

Closed lid containers, under roof and a temperature no more than 40°C (104°F) and no more than 80% relative humidity.

Driving Safety

This product contains highly flammable materials, its vapors are toxic, avoid skin contact, eyes (splashes) or continuous inhalation, use in well ventilated areas, away from fires. When use consult and follow safety rules indicated in the safety data sheet for this product.

Observations

We guarantee the quality of our products according to the general sales and application guidelines of our technical use method advice, verbally expressed, written and scenarios. Where we conducted as part of our research, therefore we suggest you conduct your own lab and field test. The application and the terms of how you use our products are out of reach of our control; therefore, you are responsible for any results. For more information call our technical advisers in Mexico 5650 5089, 5650 5238 and 5657 2784.