

PUR 800-M

Polyurethane 2K matt

High gloss 2K Polyurethane topcoat with long-lasting UV and chemical resistance. Very good hardness and flexibility. Recommended for a wide variety of industrial applications due to its ease of preparation and use.

PRODUCTS

Toners	DISOLAC	20 (w)
Binder	PUR 800-M	80 (w)
Hardener	E9005 - medium	4:1 (v)
	E9003 - slow	4:1 (v)
	E9006 - fast	4:1 (v)
	E9105 – concentrated high solids medium	8:1 (v)
	E9103 – concentrated high solids slow	8:1 (v)
	E9106 – concentrated high solids fast	8:1 (v)
Reducer	UNIVERSAL SOLV 5 - medium	0-20% (v)
	UNIVERSAL SOLV 3 - slow	0-20% (v)
	UNIVERSAL SOLV 6 – fast	0-20% (v)
	R225 – exempt VOC & 0 HAPS reducer	0-20% (v)

**For use with E-910X the amount of reducer has to be increased about 10%.*

CHARACTERISTICS OF PUR 800-M

Appearance	Matt	
Gloss	<10 at 60°	
Specific weight	10 lb/gal @68°F	
Solid content (binder)	55-59 % (weight)	39-43 % (volume)
Solid content RFU (without reducer)	55-60 % (weight)	40-45 % (volume)
Dry film thickness	2.6-3.0mils (2 coats)	
Theoretical coverage per Gallon of mixing without dilution @ 1 mil DFT	650-735 ft ²	
Corrosion category system 6041 + 800-M (ISO 12944)	C5 Medium (9.5+2.4 mils)	
	Salt spray resistance	720 h
	Humidity resistance	480 h
Pencil hardness	HB	

VOC

E-9005								
% reducer	VOC REGULATORY Univ. Solv. 5		VOC ACTUAL Univ. Solv. 5		VOC REGULATORY R225		VOC ACTUAL R225	
	lb/gal	g/L	lb/gal	g/L	lb/gal	g/L	lb/gal	g/L
0	4,4	532,0	4,4	532,0	4,4	532,0	4,4	532,0
10	4,7	559,6	4,7	559,6	4,4	532,0	4,1	493,7
20	4,9	583,6	4,9	583,6	4,4	532,0	3,8	458,9

E-9105								
% reducer	VOC REGULATORY Univ. Solv. 5		VOC ACTUAL Univ. Solv. 5		VOC REGULATORY R225		VOC ACTUAL R225	
	lb/gal	g/L	lb/gal	g/L	lb/gal	g/L	lb/gal	g/L
0	4,1	487,7	4,1	487,7	4,1	487,7	4,1	487,7
10	4,4	521,2	4,4	521,2	4,1	487,7	3,7	447,0
20	4,6	550,0	4,6	550,0	4,1	487,7	3,5	413,4

*VOC in the table is an average, for specific colors check on iCrom







SUSTRATE AND PREPARATION OF THE SURFACE

	CLEAN	SANDED	FINAL CLEAN
Old paint	DA93	P400	DA93
PRIMERS			
Primanyl 5011	DA93	--	--
Primapox 6021	DA93	Optional (P400)	DA93
Primapox 6041	DA93	Optional (P400)	DA93
Primapur 9051	DA93	Optional (P400)	DA93

For other substrates consult with the Technical Assistance (SAT).





APPLICATION

	PIECE		BIG SURFACE	
T(°F)	Hardener	Reducer	Hardener	Reducer
64-77	E9005/E9006 E9105/E9106	UNIVERSAL SOLV 5 / R225	E9005/E9105	UNIVERSAL SOLV 5 or 3 / R225
77-90	E9005/E9105	UNIVERSAL SOLV 5 / R225	E9003/E9103	UNIVERSAL SOLV 3 / R225
>90	E9005/E9003 E9105/E9103	UNIVERSAL SOLV 3 / R225	E9003/ E9103	UNIVERSAL SOLV 3 / R225

	Application	% Reducer (Vol.)	Viscosity – 68°F (Ford Cup 4)	Pressure (psi)	Product pressure (psi)	Nozzle (mm)	Num. Of coats x dry mil	Flash off (min)
	Gravity feed spray gun	10-15%	20-23"	26-36	---	1.3-1.6	2x0.8-1.2	10-15' 68°F
	Air assisted airless	0-15%	30-40"	5-15	1000- 1700	9-13	2x1-1.4	10-15' 68°F
	Airless	0-15%	30-40"	---	1500- 2200	9-13	2x1-1.4	10-15' 68°F
	Pressure pot	15-25%	20-23"	5-15	20-30	1-1.2	2x0.8-1.2	10-15' 68°F
	Pot life (68°F)	3-3,5h	---	---	---	---	---	---

If the application requires the use of an additive, it should be considered in the addition of reducer.

DRYING

				
TEMPERATURE	DUST DRY	TO TOUCH	TO HANDLE	TO RECOAT
68° F (air dry)	25-35 min	---	2 h	24h
86° F (air dry)	10 min	1h 20 min	2 h	24h

Drying at lower temperature or higher thickness increases drying time.

The product reaches its maximum performance after 15 days of drying in the air (ambient temperature 64-72°F) or in a shorter time at higher temperature.

ADDITIONAL ADDITIVES FOR SPECIAL USES

SITUATION	ADDITIVE	DESCRIPTION	EFFECT
Craters	Anti-crater additive	Film protection against external contaminations.	Anti-crater, film protection.
Outdoor resistance / UV filters	UV additive	Film protection against UV rays.	Increases film durability.
Sensitivity to spray / Too fast film drying	Flow additive	Improves the applicability, for example in wide superficies or drying weathers.	Increases open film time.
Resistivity adjustment	Electrostatic additive	It's used to adjust the coating resistivity according to the equipment used.	Decreases coating resistivity.
Slip / cleaning	Ultraclean additive	Increases the slip power of the film and facilitate the cleanliness.	More slip and easy to clean.
Anti-slip	Textured additive	Convert smooth coatings to textured coatings increasing the film hardness and gives a powder paint effect.	Anti-slip, film hardness.
Sagging resistance	Tixo additive	Improves sagging resistance and it is used to have higher film thicknesses.	Higher film thicknesses with sagging resistance.

For use and instructions of the additives consult the technical data sheet of each product.

REMARKS

- Recommended to be used in ventilated spray booth at 68°F.

EQUIPMENT CLEANING

- Use a cleaning thinner before the pot life has expired.

SAFETY

- Follow instructions on product label.
- For more information check the Safety Data Sheet.
- Compliant with the National Statutory Regulation for Health and Safety at Work and Waste Disposal.

STORAGE

- Store the product in a ventilated place far from direct exposure to sunlight.
- Keep between 41 and 86°F.

SHELF LIFE

- One year in unopened original packaging.

ANNEX A

Brightness table (60° angle)

PUR 800G	PUR 800S	PUR 800M	E9005 (in volume)	GLOSS (^60°)	CATEGORY
100	0	0	4:1	>95	HIGH GLOSS
75	0	25	4:1	85-95	GLOSS
50	0	50	4:1	75-85	GLOSS
0	100	0	4:1	65-80	SEMI-GLOSS
40	0	60	4:1	60-75	SEMI-GLOSS
25	0	75	4:1	40-50	SEMI-GLOSS
0	50	50	4:1	20-30	SATIN
0	0	100	4:1	<10	FLAT

Degree of gloss obtained through the mixture ratio Toner / Binder (30/70).

The degree of gloss depends on the color applied, dry thickness, substrate, drying temperature...

These products are for professional use only. The Safety Data Sheet should be consulted before use and the precautionary warnings on the product packaging should be observed. Its correct use, according to its purpose and respecting its technical and security data, provided in these documents, is the sole and exclusive responsibility of the user. ROBERLO S.A.U declines any liability due to the incorrect use of any product.

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