



PUR 840-M

Polyurethane antioxidant 2K

High performance, tough, industrial strength direct to metal flat 2K Polyurethane topcoat with anticorrosive protection and superior chemical resistance. Product designed to be applied in a wide variety of DTM industrial applications where good protection is required

PRODUCTS

Toners	DISOLAC	20 (w)
Binder	PUR 840-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 840-M

Appearance	Matt		
Gloss	10 at 60°, 20-25 at 85°		
Specific weight	9.2 lb/gal @68ºF		
Solid content (binder)	50-54% (weight)	38-43% (volume)	
Solid content RFU (without reducer)	48-55 % (weight)	37-42 % (volume)	
Dry film thickness	2.4-2.8 mils (2 coats)		
Theoretical coverage per Gallon of mixing without dilution @ 1 mil DFT	600-685 ft ²		
Corrosion category system 840-M (ISO 12944)	C3 Medium / C4 Low (5.1 mils)		
Salt spray resistance	ce 240 h		
Humidity resistance	nce 120 h		
Pencil hardness			

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VOC

% reducer 0

10 20

	E-9005								
VOC REGULATORY Univ. Solv. 5				REGUL	OC ATORY 225		CTUAL 225		
lb/gal	g/L	lb/gal	g/L	lb/gal	g/L	lb/gal	g/L		
4,5	534,4	4,5	534,4	4,5	534,4	4,5	534,4		
4,7	562,0	4,7	562,0	4,5	534,4	4,1	494,9		
4,9	585,9	4,9	585,9	4,5	534,4	3,9	461,3		

% reducer 0 10 20

E-9105								
REGUL	VOC EGULATORY Iniv. Solv. 5		VOC REGULATORY R225		VOC ACTUAL R225			
lb/gal	g/L	lb/gal	g/L	lb/gal	g/L	lb/gal	g/L	
4,1	490,1	4,1	490,1	4,1	490,1	4,1	490,1	
4,4	523,6	4,4	523,6	4,1	490,1	3,8	449,3	
4,6	552,4	4,6	552,4	4,1	490,1	3,5	415,8	

^{*}VOC in the table is average, for specific colors check on iCrom

SUSTRATE AND PREPARATION OF THE SURFACE

	CLEAN	SANDED	FINAL CLEAN
Old paint	DA93	P320/400	DA93
Steel	DA93	P320/400 (optional)	DA93
Galvanized steel	DA93	P320/400 (optional)	DA93
Aluminum	DA93	P320/400 (optional)	DA93
PRIMERS			
Primanyl 5011	DA93		
Primapox 6021	DA93	Optional (P320)	DA93
Primapox 6041	DA93	Optional (P320)	DA93
Primapur 9051	DA93	Optional (P320)	DA93

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

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APPLICATION

	PII	ECE	BIG SU	IRFACE
T(°F)	Hardener	Hardener Reducer		Reducer
64-77	E9005/E9006	UNIVERSAL SOLV	E9005	UNIVERSAL SOLV
	E9105/E9106	5 or 6 / R225	E9105	5 / R225
77-90	E9005	UNIVERSAL SOLV	E9003	UNIVERSAL SOLV
	E9105	5 / R225	E9103	3 / R225
>90	E9005/E9003	UNIVERSAL SOLV	E9003	UNIVERSAL SOLV
	E9105	3 / R225	E9103	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)
> 11/	Gravity feed spray gun	20-30%	20-25"	26-36		1.3-1.6	2x0.8-1.4	10-15' 68°F
	Airless	10-20%	28-40"		1500-2200	9-13	1.5x3-4	10-15' 68°F
<u></u>	Air assisted airless	10-20%	28-40"	5-15	1000-1700	9-13	2x2-2.4	10-15' 68°F
<u></u>	Pressure pot	20-30%	20-25"	20-30	5-15	1-1.4	2x0.8-1.4	10-15' 68°F
S	Pot life (68°F)	8h						

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

DRYING

TEMPERATURE	DUST DRY	то тоисн	DRY THROUGH	TO RECOAT
68º F (air dry)	10-15 min	1h-1h 30 min	4h	24h
86ºF	5-10 min	1h 30 min	3h 30 min	24h
140° F (30' forced dry)			30 min	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.

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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	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.

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ANNEX A

Brightness table (60° angle)

PUR 840G	PUR 840M	E9005 (in volume)	GLOSS (^60°)	CATEGORY
100	0	4:1	>90	HIGH GLOSS
75	25	4:1	70-90	GLOSS
50	50	4:1	40-70	SEMI-GLOSS
25	75	4:1	20-40	SATIN
0	100	4:1	<20	FLAT

Degree of gloss obtained through the mixture ratio Toner / Binder (20/80).

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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