

PARALOID[™] AU-830 High-Solids Acrylic Polyol Exceptional Durability

Product Description

PARALOID AU-830 acrylic polyol has exceptional durability and chemical, solvent resistance, as well as a good hardness/flexibility balance. This resin may be formulated to 0.3355 kg/liter (VOC), which is about 300 grams/liter.

PARALOID AU-830 is well suited for medium to heavy duty industrial coatings applications.

PARALOID AU-830 acrylic polyol is also valuable as a blend resin for other polyols to improve their performance in a variety of applications.

Typical Properties

These properties are typical but do not constitute specifications.

Solids weight %	77
Solvent	MAK
Viscosity, cP @ 25°C	15.000
Hydroxyl Equivalent Weight, solids basis	500
Density, kg/liter @ 25°C, as supplied	1.05
Color, APHA, typical	30

Starting Point Maintenance	Gloss Urethane Topcoat	Using PARALOID	AU-830
Component # 1 Sand or Media Mill		Weight/Kgs	Vol./LT
n-Butyl Acetate, P.U. grade		22.68	26.12
PM Acetate		20.41	20.82
PARALOID AU-830		81.65	78.36
Dispersbyk 163		1.36	1.14
TiO ₂ , Titanium Pure R-960		136.08	35.20
	Sub-Total	262.18	161.64
Letdown:			
n-butyl acetate, P.U. grade		13.61	15.52
PARALOID AU-830		127.01	121.89
Metacure T-12, 10% in PMAc		0.45	0.38
Tinuvin 292 (HALS)		0.91	0.76
Tinuvin 328 (UV absorber)		2.27	1.89
BYK 300		0.91	0.76
Above Mill Base		264.44	161.64
	Component #1 Total	409.60	302.84
Component #2 (At point of use, mix solvent and isocya	nate below, then mix in with	Component #1)	
n-Butyl Acetate, P.U. Grade	···· , ····	20.87	24.23
Polyisocyanate, aliphatic, HDI,	100%, (HEW=195)	59.87	51.48

	Sub-Totals	80.74	75.71
	Total Paint	490.79	378.54
Paint Properties			
	Weight Solids :	74.2%	
	Volume Solids :	61.5%	
	PVC :	15.2%	
	NCO/OH Ratio :	1.05/1	
	VOC,Kgs/LT :	0.34	

Performance Of PARALOID AU-830

Paint	
.5 PVC White, all TiO ₂ , 1.05 eq NCO/OH; 0.02% DBTDL; 0.4% HALS; 1% UV	′ Abs
Application	
2 - 2.5 dry mils on A-600-treated Aluminum; 2-week ambient cure	
Properties	
Gloss, 20/60, initial // after 5000 hrs. QUV-B : 86/94 // 68/87	
Color, b* - value, initial/after 5000 hrs. QUV-B: 0.31/1.22	
łardness, Konig, seconds – 79	
lex, Mandrel, 1/8" – Pass	
mpact Resistance, in. lbs., Direct/Reverse - 35-40/25-30	

Safe Handling Information

Dow maintains comprehensive and up-to-date material safety data sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products.

Dow recommends that you obtain copies of our material safety data sheets from your local Dow representative on each of our products prior to its use in your facilities. We also suggest that you contact your supplier of other materials recommended for use with our products for appropriate health and safety precautions prior to their use.

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