PRODUCT BULLETIN

EPOTUF® 37-601

Cycloaliphatic Amine Curing Agent

DESCRIPTION

EPOTUF® 37-601 is a modified cycloaliphatic amine adduct based on isophorone diamine intended for room temperature curing of EPOTUF® epoxy resins.

FEATURES & BENEFITS

- Low viscosity
- Light color
- Excellent chemical resistance
- Good epoxy compatibility
- Good mechanical strength characteristics
- Ultra low VOC capability

PROPERTIES - LIQUID

Color, Gardner	1 max.
Percent Solids	100*
Viscosity at 25°C, cps	200 – 400
Density Pounds per Gallon	8.40
Mix Ratio, phr, 190 EEW Liquid Epoxy	45
Amine Hydrogen Equivalent Weight, Theoretical	85
Gel time with EPOTUF® 37-140, Minutes at 25°C, 100 Gram Mass	50

** Reflects approximate weight percent in cured film per Method 24 / ASTM D 2369*

APPLICATIONS

- High solids coatings
- Chemical resistant flooring
- Hand lay-up laminating and tooling

SHELF LIFE & STORAGE

Store in a cool, dry place, preferably under 80°F to ensure a useful shelf life of at least one year.

SAFETY & WARRANTY

To receive a copy of our safety and warranty information, please email safetyandwarranty@polynt.com.

SUGGESTED FORMULATION

White Enamel
EB-37601A

Component A

Lbs.	Gals.	Material	Supplier
354.4	37.7	EPOTUF® 37-100	
17.7	2.62	Diisobutyl Ketone	
1.8	0.22	BYK 341	1
255	7.33	TiPure R-900	2

High-speed disperse to Hegman 7:

79.9	11.02	Xylene	
53.2	7.87	Diisobutyl Ketone	
762	**66.67**	**TOTAL**	

Component B

159.5	18.99	EPOTUF® 37-601	
70.9	10.5	n-Butyl Alcohol	
27.9	3.84	Xylene	
258.3	**33.33**	**TOTAL**	

Analysis:

75.56	Percent Solids, Weight
64.31	Percent Solids, Volume
10.17	Pounds per Gallon
11.88	Pigment Volume Concentration, Percent
0.495	Pigment/Binder Ratio
1032	Spread at 1 Mil., Ft^2 per Gallon
	VOC
238	Grams per Liter
1.99	Pounds per Gallon

Suppliers:

1) BYK	2) DuPont

Chemical Resistant Red Oxide Coating
EB-37601B

Component A

Lbs.	Gals.	Material	Supplier
630.2	65.30	EPOTUF® 37-140	
156.7	3.84	RO-4097 Kroma Red	1
138.8	5.78	Nytal 300	2
925.7	75.00	TOTAL	

High-speed disperse.

Component B

73.1	8.71	EPOTUF® 37-601	
146.6	16.29	EPOTUF® 37-614	
219.7	**25.00**	**TOTAL**	
1154.4	**100.00**	**TOTAL COMPONENTS A + B**	

Analysis:

100.00	Percent Solids, Weight
100.00	Percent Solids, Volume
11.44	Pounds per Gallon
9.62	Pigment Volume Concentration, Percent
0.345	Pigment/Binder Ratio
1604	Spread at 1 Mil., Ft^2 per Gallon
	VOC
0	Grams per Liter
0	Pounds per Gallon

Suppliers:

1) Elementis	2) R. T. Vanderbilt

TYPICAL PERFORMANCE DATA

Typical Properties
Unfilled Castings

EPOTUF® Resin 37-140	100 Parts by Weight
EPOTUF® Hardener 37-601	45 Parts by Weight
Cure Schedule	7 Days at 77°F
Hardness, Barcol 934-1	29
Heat Distortion Temperature, °C	53
Tensile Strength, psi	8,600
Tensile Modulus, psi ´ 10^{-5}	5.8
Percent Elongation, at Break	1.8
Flexural Strength, psi	12,700
Flexural Modulus, psi ´ 10^{-5}	5.5
Water Absorption, Percent Gain	
24 Hours at 25°C	0.11
2 Hours at 100°C	1.11