

**EPOTUF[®] 37-127**
Product Code: 37127-00
Liquid Epoxy Resin**DESCRIPTION**

EPOTUF[®] 37-127 is a low viscosity 100% reactive diluted liquid epoxy resin based on Bisphenol-A and containing EPOTUF[®] 37-058 (C₁₂ – C₁₄ glycidyl ether).

APPLICATIONS

- Adhesives
- Grouts and coatings
- Wet lay-up laminating
- Potting and encapsulation
- Flooring

FEATURES

- Low viscosity and good color
- Excellent toughness
- Excellent flexibility

PROPERTIES

Viscosity at 25°C, cps	600
Color, Gardner	1 max.
Pounds per Gallon, Solution	9.2
Epoxide Equivalent Weight, on Solids	197

STORAGE

EPOTUF[®] 37-127, as with most liquid epoxies, may crystallize during extended storage or when stored at low temperatures. Resin that has crystallized can be remelted by holding it at 130°F to 150°F until all the crystals have melted. Warm storage (130°F to 150°F) is recommended. Remelting of crystallized resin has no effect on performance.

Read the EPOTUF[®] 37-127 Material Safety Data Sheet before handling, storing, or using this product.

The information herein is general information designed to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We require customers to inspect and test our products before use and to satisfy themselves as to contents and suitability for their specific applications. We warrant that our products will meet our written specifications. **Nothing herein shall constitute any other warranty express or implied, including any warranty of merchantability or fitness for a particular purpose**, nor is any protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is limited to replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.

SUGGESTED FORMULATIONS

**Concrete Repair Compound
EB-37127A**

Component A

<u>Lbs.</u>	<u>Gals.</u>	<u>Material</u>
631.4	68.62	EPOTUF® 37-127

Component B

82.1	9.12	EPOTUF® 37-614	
157.8	19.98	EPOTUF® 37-620	
<u>75.8</u>	<u>2.28</u>	TiPure R900	(1)
315.7	31.38	TOTAL	

Mix ratio, by weight 2:1:

947.1	100.00	TOTAL COMPONENTS A + B
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Analysis:

2.28	Pigment Volume Concentration, Percent
0.087	Pigment/Binder Ratio
1604	Spread at 1 Mil, Ft ² per Gallon
100.0	Percent Solids, Weight
100.0	Percent Solids, Volume
9.47	Pounds per Gallon
	VOC
0	Grams per Liter
0	Pounds per Gallon

Suppliers:

(1) DuPont

**Solvent Free, Self-Leveling Epoxy Floor Enamel
Using EPOTUF® 37-127 and 37-612**

Component A

<u>Lbs.</u>	<u>Gals.</u>	<u>Material</u>	
379.8	41.28	EPOTUF® 37-127	
25.5	3.44	EPOTUF® 37-058	
117.1	5.28	Omyacarb 6	(1)
522.4	50.00	TOTAL	

High speed disperse to at least 5 NS.

Component B

263.5	32.53	EPOTUF® 37-612	
45.0	2.02	Omyacarb 6	
324.3	7.50	Red Iron Oxide NR-4686	(2)
<u>175.5</u>	<u>7.95</u>	Imsil A-10	(3)
808.3	50.00	TOTAL	
1330.7	100.00	TOTAL COMPONENTS A + B	

Analysis:

100.0	Percent Solids, Weight
100.0	Percent Solids, Volume
13.3	Weight per Gallon, Pounds
0.99/1	Pigment to Binder, Weight Ratio
22.7	Pigment Volume Concentration, Percent
	VOC
0	Pounds Per Gallon
0	Grams Per Liter

Suppliers:

(1) OMYA
(2) Pfizer
(3) Unimin

TYPICAL PERFORMANCE DATA

Unfilled Castings of EPOTUF 37-127

Hardener	Aliphatic Amine EPOTUF® 37-614
Hardener, 100 Parts Resin, by Weight	26
Gel Time at 25°C/77°F	
100 grams in 4 oz. Paper Cup, Minutes	14 – 17
Hardness, Barcol 934-1	34
Heat Distortion Temperature, °C/°F	68 – 71 / 155 – 160
Tensile Strength, psi	9 – 10,000
Tensile Elongation, Percent	2.2 – 2.5
Flexural Strength, psi	17 – 19,000
Flexural Modulus, psi x 10 ⁻⁵	4.5 – 5.0
Dielectric Strength, S/T, V/M	503
Dielectric Constant	
60 Hz	3.9 – 4.0
10 ⁵ Hz	3.4 – 3.5
Power Factor	
60 Hz	0.007 – 0.008
10 ⁵ Hz	0.02 – 0.021
Water Absorption, Percent Weight	
24 Hours at 25°C/77°F	0.06
2 Hours at 100°C/212°F	0.8
Cure Schedule	24 Hours at 25°C/77°F 2 Hours at 121°C/250°F

Film Properties

Thoroughly mix Components A and B 1:1 by volume approximately 30 minutes prior to use.
The coating can be poured onto the floor, brushed or troweled.

Viscosity, Stormer, Krebs Units	140
Pot Life, One Pint Mix, Hours	2 – 3
Dry Time, 1/8" Thick, Set Dry, Hours	2 – 3
Hard Dry	8 – 12

Typical Properties

Based on 7-Day, Air Dried,
20 Mil Films on Polished CRS Panels.

Pencil Hardness	4H
Gloss, 60°	30
Adhesion	
Concrete	Excellent
Steel	Excellent
Aluminum	Fair
Chemical Resistance (8-Hour Spot Tests)	
10% Acetic Acid	Good
10% Sulfuric Acid	Excellent
10% Sodium Hydroxide	Excellent
Xylene	Good
8 Hour Immersion in 150° F Water	No Effect
Humidity Resistance, QCT Cabinet	
Hours	500
Blisters	None
Weathering, QUV A340	
Hours	74
Gloss Retention	89%
Hours	144
Gloss Retention	69%
Hours	192
Gloss Retention	40%