

Starting Formulation

SF 6017

Waterborne Self-Leveling Flooring Formulation

EPI-REZ™ Resin 3510-W-60 / EPIKURE™ Curing Agent 8535-W-50

- Features
- 100% waterborne - No cosolvents
 - Fast hardness development
 - Early water-resistance
 - Recommended for use on concrete as a self leveling flooring formulation

Formula	Material	Supplier	Weight (gms)	Volume (mL)
Part A				
	EPIKURE 8535-W-50	Hexion	61.2	56.04
	Water		19.5	19.5
	BYK-025	BYK Chemie	3.8	6.08

Mix curing agent with water and defoamer prior to pigment addition. Dispermat mixer with saw tooth head, 2000 rpm for 3 minutes.

TI-PURE® R-960	DuPont	13.8	3.56
Barytes	Harcros Pigments Inc.	160.6	83.98
Talc	R. T Vanderbilt Comp.	65.0	24.08
Silica Sand	New Jersey Pulverising Co.	65.0	24.60

Slowly add pigment and fillers with high shear mixing. Dispermat mixer with saw tooth head, 4000 rpm for 8 minutes.

Extra Water		<u>18.4</u>	<u>18.4</u>
	Total Part A	407.3	236.24

Part B				
	EPI-REZ 3510-W-60	Hexion	<u>100.0</u>	<u>91.70</u>
	Total Part B	100.0	91.70	

Typical Handling Properties Table 1 / Handling and Performance Properties

	Units	Value
Total solids of formulation	%	78.01

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Pigment to binder ratio 3.4 : 1

Tested on concrete blocks at 80 mils wet film thickness

Performance

After 24 hrs.

Dry time hrs 3

Hardness, Pencil 6B

Hardness Shore D 60

After 1 weeks:

Hardness, Pencil 2B

Hardness Shore D 75

After 2 weeks:

Hardness, Pencil 2B

Hardness Shore D 75

MIBK resistance 25 minutes

Pull off test +/- 300 lbs/inch square (100% cohesive failure)

Chemical resistance¹ 1 day 3 days

10% NaOH 10 10

30% Sulfuric acid 9 9

Methanol 10 10

Water 10 10

Toluene 5 5

¹Coating performance rating

Number Rating	Pencil Hardness	Resistance Rating
10	NRP	R
9	NRP	RàLR
8	NRP	LR
7	NRP	LRàNR
6	NRP	NR
5	RP	R
4	RP	RàLR
3	RP	LR
2	RP	LRàNR
1	RP	NR

10 = No change, 1 = Complete Failure, RIP = Reduction in Pencil Hardness, NRP = No Reduction in Pencil Hardness, R = Resistant, LR = Limited Resistance, NR = Not Resistant

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Storage Recommendations regarding storage conditions can be obtained by visiting our web site at www.hexion.com

General Information

These are starting formulations and are not proven in the user's particular application but are simply meant to demonstrate the efficacy of the products and to assist in the development of the user's own formulation. It is the user's responsibility to fully-test and qualify the formulation, along with the ingredients, methods, applications or equipment identified herein ("Information"), by the user's knowledgeable formulator or scientist, and to determine the appropriate use conditions and legal restrictions, prior to use of any Information.

Safety, Storage & Handling

Please refer to the MSDS for the most current Safety and Handling information.

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Contact Information

For product prices, availability, or order placement, please contact customer service:

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