Starting Formulation

SF 6010

Epoxy Glaze Coat for Seamless Flooring
EPON™ Resin 828 and 8021 / EPIKURE™ Curing Agent 3370

Introduction This low viscosity epoxy system is designed for use as a sealer, glaze or finish coat for seamless flooring. Its relatively high reactivity and low viscosity also suggest use as a binder for flooring and grouting installations where ambient temperatures are expected to be slightly lower than normal room temperature.

Features

- High reactivity provides for rapid cure development at typical application temperatures
- Coating clarity in cured films with minimal sweat-out, blushing or hazing, even when subjected to incidental moisture contact

Formula

Material	Supplier	Pounds	Gallons
Resin Portion			
EPON Resin 828	Hexion	50.0	5.18
EPON Resin 8021	Hexion	50.0	5.43
	Total Resin Portion	100.0	10.61
Converter Portion			
EPIKURE Curing Agent 3370	Hexion	43.0	5.16
	Total Converter Portion	43.0	5.16

Compounding Application Instructions Mix the resin and converter portions and blend to a homogeneous state with proper agitation equipment. Avoid entrainment of excessive air into the blend with high speed agitation, but ensure thorough mixing by agitating at low or moderate speeds for 3 to 5 minutes. There is no induction time for this formulation. Due to its limited pot life, this system should be applied immediately after mixing. The surface to be coated must be free of dust, dirt, grease or weakened concrete laitance. A uniform glaze, sealer or finish coating can be applied easily with a brush, paint roller or squeegee.

Coverage rates depend on the application technique, substrate porosity and intended function, but for most applications an average thickness of 5 to 15 mils (320 to 110 square feet/gallon) is typical. Film weights at the low end of the range are for sealer applications and higher film weights are for glaze and finish coat applications. Cure for 12 to 16 hours at normal room temperature before opening to light traffic. A 2 to 3 day cure period should precede exposure to heavy traffic, standing water or mildly corrosive chemicals. Exposure to organic solvents should be avoided.

Typical Handling Properties Table 1 / Handling Properties

	Units	Value
Resin/Converter combining ratio	By weight	100 : 43
	By volume	2 : 1

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Blend properties at 23 °C		
Viscosity, Initial	cP	480
Expected pot life, 100 gram mass	min	15

Typical Cured State Properties

Table 2 / Cured state properties[1]

	Units	Value
Tensile strength	psi	8,350
Tensile elongation	%	22.5
Tensile modulus,10^6	psi	0.41
Izod impact, notch	ft.•lb./inch	0.45
Hardness	Shore D	86
Heat deflection temperature	°C	56
Tabor abrasion, wear index[2]	mg. loss/1000 cycles	28.8

[1] System cured 7 days at 23 °C.

[2] System applied 10 mils to Bonderite 40 substrate, reported at mg. loss/1000 cycles using CS-10 wheels.

Typical Cured State Properties

Table 3 / Chemical resistance [1]

Immersion	Units	Water	5% Acetic Acid	Xylene
1 day	%	0.19	0.25	0.50
1 week	%	0.57	0.81	3.86
2 weeks	%	0.88	1.26	6.85
4 weeks	%	1.17	1.70	10.00

[1] Percent weight gain of 3 inch x 1 inch x 1/8 inch specimens immersed at 23 °C.

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.

Exposure to these materials should be minimized and avoided, if feasible, through the observance of proper precautions, use of appropriate engineering controls and proper personal protective clothing and equipment, and adherence to proper handling procedures. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheet (MSDS) for these and all other products being used are understood by all persons who will work with them. Questions and requests for information on Hexion Inc. ("Hexion") products should be directed to your Hexion sales representative, or the nearest Hexion sales office. Information and MSDSs on non-Hexion products should be obtained from the respective manufacturer.

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Contact Information

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

www.hexion.com/Contacts/

For literature and technical assistance, visit our website atwww.hexion.com

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