

Starting Formulation

SF 6012

Epoxy Glaze Coat for Seamless Flooring EPON™ Resin 828 / EPIKURE™ Curing Agent 3383

Introduction This formulation features the use of EPIKURE 3382 Curing Agent in a compound designed as a sealer, glaze or finish coat for seamless flooring.

- Features**
- Ease of application by roller or squeegee
 - Mild odor
 - Light color
 - Moderate viscosity
 - Good substrate wetting characteristics
 - Durable adhesion to common flooring substrates
 - Minimal sweat-out, blush or bloom when subjected to cure at high humidity conditions
 - Minimal water spotting
 - Good mar resistance
 - Resistance to mildly corrosive acids and alkalis

Formula	Material	Supplier	Pounds	Gallons
Resin Portion				
	EPON Resin 828	Hexion	100.00	10.36
	Total Resin Portion		100.00	10.36
Converter Portion				
	EPIKURE Curing Agent 3382	Hexion	62.00	7.35
	Total Converter Portion		62.00	7.35

Compounding 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, but insure thorough mixing by agitation at low or moderate speeds for 3 to 5 minutes. There is no required induction time for this formulation. Due to its limited pot life, this system should be applied immediately after mixing.

Application Instructions The substrate to be coated must be free of dust, dirt, oils, fats, greases or membrane coating paints. Old concrete substrates can be cleaned by either sandblasting or scarification to remove surface contaminants. The laitance on the new concrete can be removed by a muriatic acid etch followed by thoroughly flushing with water, then scrubbing and drying.

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 builds at the low end of the range are for sealer applications and high 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 or corrosive chemicals.

Typical Handling Table 1 / Handling Properties

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Properties

	<u>Units</u>	<u>Value</u>
Combining Ratio, Resin/Converter	by weight	100 : 62
	by volume	1.4 : 1
Viscosity, System, at 25 °C	cP	4,650
Gel Time, 100 grams at 25 °C	min.	25

Typical Cured State Properties Table 2 / Cured State Properties ¹

	<u>Units</u>	<u>Value</u>
Heat deflection temperature	°C	63
Tensile Strength	psi	7,881
Tensile Elongation	%	4.9
Hardness	Shore D	82
Chemical Absorption ²		
Water	%	0.22
5% Acetic Acid	%	0.31
Xylene	%	0.03

¹ Determined on 1/8 inch thick castings cured 7 days at 25 °C.

² Weight gain after immersion for 24 hours at 25 °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.

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 at www.hexion.com

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