

Starting Formulation

SF 6020

Highly Flexible, Impact Resistant Flooring – Grey EPON™ Resin 815C / EPIKURE™ Curing Agent 3164

Introduction This formulation is designed to provide a high degree of flexibility and impact resistance for a majority of interior concrete flooring applications. The superior toughness of this system is apparent by the high mechanical strengths seen in the Cured State Properties table. This system is also recommended for applications designed to protect concrete from excessive wear by steel wheeled carts, tow motors and skid tubs.

- Features**
- Ease of application by roller or trowel
 - Good substrate wetting characteristics
 - Good wear resistance
 - Minimal sweat-out and blush when exposed to high humidity
 - Very good profile of mechanical properties

Formula	Material	Supplier	Parts by Weight	Part by Volume
Formulation				
	EPON Resin 815C	Hexion	100.0	10.53
	Colorant, White	Plasticolors Inc. Colorants	14.0	1.2
	Colorant, Black	Plasticolors Inc. Colorants	4.0	1.4
	EPIKURE Curing Agent 3164	Hexion	115.0	14.11
	EPIKURE Curing Agent 3253	Hexion	3.0	0.37

Compounding 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 ensure 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.

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 application, but for most applications 10 to 15 mils (215 to 110 square feet/gallon) is typical. Film builds at the lower end of the range are for sealing applications and higher film thickness are for glaze and finish coat applications. Cure for 24 hours at normal room temperature before opening to light traffic; a 3-to-4-day cure period should precede exposure to heavy traffic.

Typical Handling Table 1 / Handling Properties

Properties

	Units	Value
Generated:		October 21, 2021
Issue Date:		
Revision:		

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Viscosity at 25°C, system	cP	4,225
Gel time, 100 grams at 25°C	min.	85
Combining ratio, Resin/Converter	By weight	1:1
	By volume	0.9:1

Typical Cured State Properties Table 2 / Cured State Properties ¹

	<u>Units</u>	<u>Value</u>
Tensile strength	psi	1,237
Tensile modulus	psi	1,288
Tensile elongation	%	230
Taber abrasion ²	mg loss/1000 cycles	25
Hardness, 3 days	Shore D	51
Tear strength	lbs/in	454
Izod impact, notch	ft.-lb/in	13.5

¹ Properties determined on a 1/8" thick casting cured 16 hrs at 25 °C plus 2 hrs at 100 °C

² Determined by 1,000 cycles.

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:

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

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