

Technical Data Sheet

Versamid[®] 140

Product Description	Versamid [®] 140 is a medium to low viscosity, reactive polyamide-based resin solution designed for use with solid or liquid epoxy resins to provide tough, chemical-resistant thermoset coating applications that cure at room temperature.
Key Features & Benefits	<ul style="list-style-type: none">- Combination of hardness and flexibility- High chemical and solvent resistance- FDA compliant*
Chemical Composition	Polyamide resin based on dimerized fatty acid and polyamines <i>*The FDA status of this product is available upon request from the contact information below.</i>

Properties

Product Specifications	Appearance	amber liquid
	Amine value	370 – 400 mg KOH/g
	Viscosity at 25°C (Thermosel)	8,000 – 12,000 cps
	Gardner color	7 max
Typical Characteristics	Active content	100%
	Gardner color	6
	Specific gravity at 25°C	0.97 g/cm ³
	Flash point	185°C
	Theoretical H-equivalent*	97

**Please use theoretical H-equivalent as indicative information in so far as the average H-equivalent could be significantly different due to the polymer development (molecular weight distribution) and the purity of commercial amines.*

These typical values should not be interpreted as specifications.

Applications

Versamid[®] 140 is a medium to low viscosity, reactive polyamide resin solution designed for use with solid or liquid epoxy resins to provide tough, chemical-resistant thermoset coating applications that cure at room temperature. This resin is also useful in adhesive applications.

Versamid[®] 140 and epoxy resin coating systems are more chemical and solvent resistant than Versamid[®] 115 systems and generally lower in viscosity than Versamid[®] 125 systems. It offers a unique combination of hardness and flexibility along with the highest chemical and solvent resistance of the dimer-based polyamide resin series.

Versamid[®] 140 and epoxy resin systems are recommended for applications such as:

- Maintenance coating applications
- Primers
- High solids enamel paint formulations

All systems based on Versamid[®] 140 show good resistance against aliphatic hydrocarbons, lubricants, alkaline solutions and diluted acids; good to fair resistance against atmospheric agents and water.

Processing

Mixing ratio suggestions are more reliable as being based on experimental tests. Due to chemical reaction, Versamid[®] 140 and epoxy resins should not be mixed until just prior to use.

Mixing Ratios

	190 EEW liquid epoxy (50 – 70 phr)	475 EEW solid epoxy 40% NV (20 – 30 phr)
Pot life at 25°C on 200g mass	2 hours	1 – 2 days
Max exotherm peak	150°C	--
Tack-free time at 25°C	6 hours (200 µm wet)	2 hours (100 µm wet)
Minimum application temperature	15°C	15°C

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Versamid[®] 140.

Storage

Versamid[®] 140 may absorb moisture and carbon dioxide if left in open containers, which may result in an increased viscosity and some foaming when curing epoxy resins. Therefore, it should be kept in tightly closed containers when not in use and stored in a cool, dry place. Properly stored and protected, an unopened container of Versamid[®] 140 should have a shelf life of two years.

Important

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, they are provided for guidance only. Because many factors may affect processing or application/use, Gabriel Phenoxies Inc. recommends that the reader make tests to determine the suitability of a product for a particular purpose prior to use. **NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESCRIPTIONS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS.** In no case shall the descriptions, information, data or designs provided be considered a part of Gabriel's terms and conditions of sale. Further, the descriptions, designs, data, and information furnished by Gabriel hereunder are given gratis and Gabriel assumes no obligation or liability for the descriptions, designs, data or information given or results obtained all such being given and accepted at the reader's risk.

Versamid is a registered trademark of Gabriel Phenoxies Inc.

GABRIEL PHENOXIES INC.
808 CEL-RIVER ROAD
ROCK HILL, SC 29730 USA
TEL: (803) 909-8450
www.gabrielchem.com