

Technical Data Sheet

VERSAMID[®] EH-50

*Versamid[®] EH-50 was previously BASF Versamine[®] EH-50

Product Description	VERSAMID[®] EH-50 is a tertiary amine accelerator and curing agent for epoxy resin coatings and adhesives.
Key Features & Benefits	<ul style="list-style-type: none"> - Non corrosive - As an accelerator and catalysis of polyamides, polymercaptans, aliphatic polyamines, amidoamines and polyisocyanates - Room and low temperature cure - Low odor - Light color - Non-formaldehyde chemistry
Chemical Composition	Tertiary amine accelerator and curing agent

Properties

Product Specifications	Amine value	465 – 510 mg KOH/g
	Viscosity at 25°C (Thermosel)	150 – 400 cps
	Gardner color	3 max
Typical Characteristics	Amine value	480 mg KOH/g
	Viscosity at 25°C (Thermosel)	300 cps
	Density	8.0 lbs/gal
	Gardner color	1
	Moisture (Karl Fisher)	0.1% (0.3% max)
	Freezing point	10°C, 50°F

These typical values should not be interpreted as specifications.

Applications

VERSAMID[®] EH-50 is a tertiary amine accelerator and curing agent for epoxy coatings and adhesives as well as polyurethane foam systems. This formaldehyde-free amine induces fast reactivity with polymercaptan, polyamide, polyamine and polyisocyanate resins.

VERSAMID[®] EH-50 and epoxy resin systems are recommended for applications such as:

- Coatings
- Concrete patching compounds
- Adhesives
- Electrical potting and encapsulation
- Urethane foams
- Laminates and low color castings

Processing Recommended mix ratio as a curing agent is 5 – 10 phr; as an accelerator is 1 – 5 phr. Due to chemical reaction, VERSAMID[®] EH-50 and epoxy resins should not be mixed until just prior to use.

VERSAMID® EH-50 Acceleration

Study Gel Time (200g mass)

	Control	+ 5 phr VERSAMID® EH 50	+ 5 phr VERSAMID® EH 30
Versamid® G151	81 minutes	66 minutes	56 minutes
Versamid® 140	108 minutes	84 minutes	66 minutes
Versamid® 115	178 minutes	125 minutes	144 minutes
Versamid® C 30	38 minutes	25 minutes	30minutes

Through Cure (6 mils DFT)

	Control	+ 5 phr VERSAMID® EH 50	+ 5 phr VERSAMID® EH 30
Versamid® G 151	10 hours	6 hours	6 hours
Versamid® 140	8 hours	5 hours	5 hours
Versamid® 115	5 hours	4 hours	5 hours
Versamid® C 30	6 hours	3 hours	3 hours

VERSAMID® 690 CE / VERSAMID® EH 50 Water Immersion

	Control	+ 5 phr VERSAMID® EH 50	+ 5 phr VERSAMID® EH 30
Versamid® G 151	0.05%	0.11%	0.24%
Versamid® 140	0.59%	0.40%	0.61%
Versamid® 115	0.55%	0.91%	1.98%
Versamid® C 30	0.45%	0.36%	0.40%

Percent weight gain after 7 days at 25°C when cured with 190 EEW epoxy resin.

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® EH-50.

Storage

VERSAMID® EH-50 may darken on exposure to elevated temperatures for extended periods of time. Therefore, it should be kept in tightly closed containers when not in use and stored in a cool, dry place. Properly stored and protected from moisture, an unopened container of VERSAMID® EH-50 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, it is recommended 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.

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**Versamid® G-151 was previously BASF Genamid®151*

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