

VERSAMID® EH-50 Curing Agent

Product Description

VERSAMID® EH-50 curing agent 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.

Applications

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

Features

- Non-corrosive
- Accelerator and catalyst for polyamides, polymercaptans, aliphatic polyamines, amidoamines and polyisocyanates
- Room and low temperature cure
- Low odor
- Light color
- Non-formaldehyde chemistry

Specified Key Data

Property	Value
Color, Gardner, max	3
Amine Value, mg KOH/g	465 - 510
Viscosity, Thermosel, at 25 °C, cP	150 - 400

Typical Properties

Property	Value
Amine Value, mg KOH/g	480
Viscosity at 25 °C, cP	300
Density lb/gal	8.0
Color, Gardner	1
Moisture (Karl Fisher)	0.1% (0.3% max)
Freezing Point, °C (°F)	10 (50)

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 curing agent and epoxy resins should not be mixed until just prior to use.

VERSAMID® EH-50 Acceleration

Study Gel Time (200g mass), minutes

	Control	+5phr VERSAMID® EH-50	+5phr VERSAMID EH-30
VERSAMID® G151	81	66	56
VERSAMID® 140	108	84	66
VERSAMID® 115	178	125	144
VERSAMID® C30	38	25	30

Through Cure (6 mils DFT), hours

	Control	+5phr VERSAMID® EH-50	+5phr VERSAMID EH-30
VERSAMID® G151	10	6	6
VERSAMID® 140	8	5	5
VERSAMID® 115	5	4	5
VERSAMID® C30	6	3	3

VERSAMID® 690 CE / VERSAMID® EH-50 Water Immersion Weight Gain, %

	Control	+5phr VERSAMID® EH-50	+5phr VERSAMID EH-30
VERSAMID® G151	0.05	0.11	0.24
VERSAMID® 140	0.59	0.40	0.61
VERSAMID® 115	0.55	0.91	1.98
VERSAMID® C30	0.45	0.36	0.40

Storage

VERSAMID® EH-50 curing agent should be stored in a dry place, in its sealed original container, at temperatures between **2°C to 40°C (35.6°F to 104°F)**. Under these storage conditions the shelf life is **12 months** from date of manufacture. The product should not be exposed to direct sunlight.

Precautionary Statement

Huntsman Advanced Materials Americas LLC maintains up-to-date Safety Data Sheets (SDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

First Aid!

Refer to SDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN

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