

CAPCURE® 40 SEC HV Curing Agent

Product Description

CAPCURE® 40 SEC HV curing agent is a mercaptan-based epoxy hardener which, when used in a 1:1 ratio with a standard bisphenol-A epoxy resin (DGEBA EEW 190), provides gel time of 40 seconds, in a 20-gram mass at 25°C. CAPCURE® 40 SEC HV curing agent provides the fastest cure of mercaptan curing agents, improves bonds to glass and metal, and eliminates induction times of polyamides and amido-amines. CAPCURE® 40 SEC HV curing agent is pre-catalyzed, and as such, requires no additional compounding prior to use, other than the incorporation of fillers or diluents if desired. Extremely rapid-setting epoxy hardener at ambient temperature.

Applications

- Consumer Patch Kits
- Road Marker Adhesives
- Industrial Adhesives
- Jewelry and Craft Adhesive Cure
- Acceleration of Epoxy Adhesive Cure

Features

- Extremely Rapid Cures
- Excellent adhesion to glass and metals
- Serves as a catalyst or co-curing agent
- Excellent low-temperature capability
- Rapid set in thin films

Typical Properties

Property	Value
Color, Gardner	4.0 max
Moisture, Dean Stark, Wt %	0.3 max
Viscosity (Brookfield) at 25 °C, cP	8,000 - 15,000
Density, g/cm ³	1.15

Gel Time at 25 °C, seconds	30 - 50
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Processing

Example Formulation	Ratio
Epoxy Resin (DGEBA EEW 185-200)	100 Parts
CAPCURE® 40 SEC HV	100 Parts
Property	Value
Gel Time at 25 °C, seconds	40
Hardness after 15 minutes, Shore D	83
Tensile Strength, psi	4,500
Elongation, %	3.9
Compressive Strength, psi	8,000
Flexural Strength, psi	6,100

*Test Specimens cured 7 days at room temperature.

Regulatory Status

TSCA (USA), DSL (Canada), PICCS (Philippines), AICS (Australia), ENCS/MITI (Japan), IECSC (China), EINECS (EU)

Storage

CAPCURE® 40 SEC HV curing agent should be stored in a dry place, in its sealed original container, at temperatures between **10°C - 30°C (50°F - 86°F)**. Under these storage conditions the shelf life is **24 months** from date of manufacture. The product should not be exposed to direct sunlight.

Mercaptans are known to yellow above 75°F. At 90°F the yellowing is accelerated and at 100°F the yellowing is instant. While yellowing is not always observed by the naked eye, a definite increase is detected by the colorimeter.

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

FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

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