

CAPCURE® 3-800

Curing Agent

PRODUCT DESCRIPTION

CAPCURE® 3-800 curing agent is a mercaptan (-SH) terminated liquid curing agent which imparts rapid-cure characteristics to epoxy resins in combination with selected amines. These systems are unique in that they also provide rapid cure rates at low temperatures, and in thin films.

APPLICATIONS

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

FEATURES

- Rapid Cures
- Low Temperature Cures
- Thin Film Cures
- Low Toxicity
- Excellent Color

TYPICAL PROPERTIES

Color, Gardner	1.0 max
Moisture, Dean Stark, Wt %	0.3 max
Mercaptan Value, meq/g	3 min
Viscosity (Brookfield) at 25 °C, cP	10,000 - 15,000

Density, g/cm ³	1.15
pH	3.0 - 5.0
Chloride, Wt %	0.15 max

PROCESSING

CAPCURE® 3-800 curing agent is a unique polymercaptan epoxy hardener which, when used with a catalyst, provides very rapid cures of epoxy systems, even in thin films and at low temperatures. The catalyst is an integral part of a CAPCURE® 3-800 system. The action of a properly selected catalyst can provide gel times as short as 4 minutes. GPA-30 tertiary amine is a most effective catalyst for CAPCURE® 3-800 systems.

A two-part epoxy system can be obtained by blending the tertiary amine into the CAPCURE® 3-800 curing agent to produce the epoxy hardener system. In the blending process, care should be taken to avoid introducing iron contamination. The catalyst, fillers, other additives and the equipment used should be selected carefully with avoidance of iron contamination in mind. Iron contamination in connection with oxygen in the atmosphere may cause skinning in some systems.

REGULATORY STATUS

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

STORAGE

CAPCURE® 3-800 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.

Note: 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.

SAFETY INFORMATION

KEEP OUT OF REACH OF CHILDREN FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

Atom Adhesives 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 SDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

First Aid! Refer to SDS as mentioned above.

GENERAL INFORMATION

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

AVAILABILITY

This curing agent can be supplied in various different packages.

Data Sheets: TDS | [MSDS available upon request](#)

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