



## Curing Agents

### epoxa us™ 13-01

#### Description

epoxa us™ 13-01 curing agent is a aliphatic amine based compound engineered to create strong flooring coatings for industrial or civilian use. This hardener can be used with several epoxy resins to obtain the desired coating or floor characteristics and final properties.

It is also recommended for concrete crack, hole and fissure maintenance repairs and to correct any imperfections on concrete surfaces.

#### Applications

- \* Industrial flooring
- \* Garage and shop floors
- \* Coatings resistant against abrasion
- \* Concrete repair
- \* Wall cracks

#### Key Features and Benefits

- \* Fills holes, stops cracks and fractures
- \* Provides blush free industrial flooring
- \* Fixes hazardous floor imperfections and protrusions
- \* Saves money by repairing existing concrete vs new concrete
- \* Positive cure at room temperature

#### Sales Specification

Property	Units	Value	Test Method/Standard
Primary Amine % of total	%	95	ST 5.34
Viscosity at 25°C	cST	10.0	
Color	Visual	Light Yellow	ASTM D1544

#### Typical Properties

Property	Units	Value	Test Method/Standard
Equivalent weight, approx.		63	
Density @ 25 °C	lbs/gal	7.9	ASTM D1475

## 13-01

Flash point	°C	>118	PMCC
Appearance		Light Yellow	
Mix ratio with			
epofill-01 epoxy resin system	phr	13 - 20	

### Performance Properties

#### Properties of epoxa us 13-01 curing agent

Components	Units	Value	Units	Value
epoxa us 13-01	pbw	16	by volume	1
epoxa us epofill-01	pbw	100	by volume	3

Mix part A thoroughly with 13-01 for 5 minutes and make sure all product is mixed well, avoid any potential unmixed material that could affect the final look and properties of the system. The system is self-leveling and no additional work is required after pouring.

The product will achieve final properties in 3-5 days but can be walked on after 2-4 hours after application (depending on temperature and mass applied)

### Handling Properties

#### 25°C

Viscosity, Mixed	P	75-90
Peak Exotherm film / in mass (250gr)	°C	67 / 102
Pot life, 250 g, 25 °C	min	15-25

### Cured Properties

Heat Deflection Temperature	ASTM D648	°C	55
Tensile Strength	ASTM D638	psi	6979
Tensile Elongation		%	10

### Physical Properties

Percent of solids in epoxa us 13-01	100
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Results will vary depending on several factors. High humidity could affect finish, bad mixing will affect the project because the system cures only when mixed and not with air.

Surface cracks and fissures could play a part in final results as material could leak in.

Small tests are recommended to obtain desired results.

Not recommended for below 45f application.

Curing times depend on temperature and mass (quantity of product mixed) higher temperature, faster curing, more mass, faster curing.

**Thin film gel**

Gel time at 25 °C	minutes	35-45
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**Dry times**

Tack-free	hours	1-3
Through-cure	hours	1.5-3.5

**250 gr mass**

Pot life at 25 °C	minutes	25-35
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**Dry times**

Gel Time	minutes	45-65
Cure	minutes	90-210
Final Properties	days	3-5

**Resistance to Chemicals**

epoxa us curing agent 13-01 when used with epoxa us resin 1677-01 or 1677-02 exhibits great resistance to general chemicals and light acids. Impermeability is one of it's properties although submerging in water for long periods of time is not recommended.

The system is intended for indoor use, and if applied correctly will last for many years since it possesses higher properties than concrete and will resist everyday warehouse traffic areas and weather variations.

**Pigmentation**

epoxa us 13-01 curing agent when used with epoxa us 1677-01 or 1677-02 epoxy resin can be pigmented with different minerals to achieve desired color. Some types of acrylic copolymer liquid pigments can be used as some types of paint coloring. These pigments are usually applied to the resin part of the system prior to mixing and not to epoxa us 13-01.

**Coatings**

Coating projects will need some preparation, including a dust free and clean concrete or other material surface. This system will take longer to cure when applied as a thin film layer. The product will provide years of performance on garages or peolpe traffic areas, it can be cleaned or moped with ease and can also be made anti-slip if desired.

Matching color is available and easy to obtain.

It is recommended to contact us to obtain tips and instructions on how to use this product on certain household applications.

### Storage, Handling and Safety

Please read and understand the latest MSDS before using epoxa us 13-01

Please refer to epoxa us website for more information on shelf life.

Exposure to these materials should be minimized and avoided, if feasible, through the observance of proper precautions, use of appropriate engineering controls and proper personal protective clothing and equipment, and adherence to proper handling procedures. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheet (MSDS) for these and all other products being used are understood by all persons who will work with them. Questions and requests for information on epoxa us incorporated products should be directed to your epoxa us sales representative. Information and MSDSs on non epoxa us products should be obtained from the respective manufacturer.

### Packaging

Available in gallon and drum quantities.

### Contact Information

For product prices, availability, or order placement, MSDS and technical help please contact us.

[www.epoxaus.com](http://www.epoxaus.com)

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