



# Epoxy Paint 100-01

## Description

Epoxa us 100-01 epoxy resin paint is a colored coating designed to be used as a protective layer on top of different kind of surfaces. It adheres strongly to metal, wood, concrete, composites, epoxies, polyesters and other materials. The 2 part system comes in several colors and can be mixed with other pigments to achieve a specific tone.

Resin 100-01 can be mixed with other liquid epoxy resins or modifiers to achieved a hybrid type of paint with the desired characteristics.

High loads of fillers can be used if a mortar type compound is needed and the addition of texture type sand or flakes can be added for anti-slip applications.

Epoxa us 100-01 epoxy resin paint formulation can be stored for long periods and used in civil, commercial or industrial applications where a high resistance, high gloss coating is needed.

This product can be cross-linked or cured with several curing agents, mainly epoxa us 10-01 to attain desired properties.

## Key Features and Benefits

- High chemical resistance
- Excellent adherence to metals and other materials
- High resistance to abrasion
- Flooring applications
- Chemical and abrasive resistant coatings on metal structures, wood and other materials
- Variable mixing ratios depending on curing agent used
- Inexpensive alternative to more expensive systems

## Sales Specification

PROPERTIES:	100-01	10-01	Test Method
Color/Visual	Main Colors	Clear yellow	
Viscosity 77f / 25c ctps	4000-6000	40-60	ASTM D445
Specific Gravity	1.65/1.75	0.88 - 1.02	ASTM D 1652
Shelf life/Minimum	18 months	18 months	

The final characteristics of this products will vary according to the thickness used when applied. This is true with coatings or painte in general and properties like impact resistance, compression, and hardness will vary depending in several factors.

## Curing Agents

Epoxa us 100-01 resin can be cross-linked or cured mainly with different types of curing agents. The properties of the final product will depend on the hardener selected. Some information about these curing agents and their recommended concentrations, typical gel times, density and viscosity data are shown in Table 1.

**Table 1 Curing Agents for epoxa us 100-01**

Curing Agent	Type	Mixing Ratio (100-01)	Gel Time/min/25c/77f	Density/lbs/gal	Viscosity/77f/25c/cP	Color/Gardner
epoxa us 10-01	Liquid	100 to 25 by Volume	30m (200gr)	0.99	50-100	1
epoxa us 13-01	Liquid	3 to 1 by Volume	2h gel/6h cure	1.0	300-400	2
epoxa us 20-01	Liquid	100 to 10 by Volume	30m (200gr)	0.98	25(20c)	2
epoxa us 68-01	Liquid	100 to 10 by Volume	35(200gr)	0.94	10(20c)	1
epoxa us 10-01	Maximum hardness an excellent mechanical properties, low viscosity, room temperature cure. Semi-opaque finish					
epoxa us 13-01	Gives greater flexibility and impact resistance to the compound. Longer cure at room temperature. High Gloss finish					
epoxa us 20-01	Highest hardness properties and excellent thermal resistance. Opaque finish, used with texture flakes or sand					
epoxa us 68-01	General applications, fast cure at room temperature. Excellent mechanical properties in fiber glass or carbon laminates.					

## Performance Properties

### Adhesion Properties

Epoxa us 100-01 creates strong adhesions specially with curing agent epoxa us 20-01. This curing agent also gives hardness to the system. Applications using any of the four curing agents will exhibit low shrinkage during cure and superb mechanical properties.

### Electrical Properties

Epoxa us 100-01 cured systems have excellent dielectric and insulating properties. Systems with excellent volume resistivities , high dielectric constants and excellent dissipation factors can be obtained at ambient temperatures with epoxa us 20-01 and 68-01 and Data where dielectric properties are needed.

### Chemicals Resistance

Epoxa us 100-01 cured systems have great chemical resistance to a wide range of chemicals like caustic, acids, solvents and petroleum derivatives. Chemical resistant systems with different properties can be formulated using epoxa us 100-01 resin system.

### Mechanical Properties

High strenght with high performance materials can be obtained using epoxa us 100-01 resin with various hardeners. Tensile values grater than 7000 psi with modulus greater than 300 000 psi with unfilled systems are possible with thick applications.

### Curing

For additional information covering the use of epoxa us 100-01 resin with our variety of curing agents and the formulations resulting from them please contact epoxa us by phone, e-mail or letter and our team will work with you to recommend and achieve the system solution for your project or application.

Epoxy curing agents when mixed with epoxy resin cure faster with high temperature and slower with low temperature, the mixture reaction will generate heat so a thin film of resin and hardener will take longer to cure than a thick mixture or mass of resin and hardener. This is true to the great majority of epoxy systems.

Exact cure time will depend on temperature, sample mass or thickness and most importantly curing agent used. Since cure times decrease with mass or volume, special consideration and testing should be conducted when mixing larger amounts of material to achieve desired goals in working times and the overall application of a given system.

### Packaging and Dispensing

Epoxa us 100-01 resin is available in 500 lbs drums, 5 gallon pails and individual gallons.

It can be stored at 100-120 f (38-49c) for ease of handling.

Viscosity will change 10-15 poise for each degree in temperature the product varies from 25c the higher temperature less viscous and lower temperature more viscous.

Always dispense the resin at the lower temperature that works for your application because it is always better to handle low temperature material than high temperature material even though epoxa us 100-01 can be dispensed at 100-120f (38-49c) safely.

### Accidental Spills

#### Small Spill

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

#### Large Spill

Persons not wearing protective equipment should not participate until clean up has been completed. Stop spill at source, dike area of spill to stop spreading of the product, pump liquid to salvage tank and remaining liquid can be taken on sand, clay, or other absorbent material and put into containers.

Dispose of in accordance with all applicable local, state and federal regulations.

**Note:** If this material becomes a waste, it would not be a hazardous waste by RCRA criteria ( 40CFR 261).

Place in an appropriate disposal facility in compliance with local and federal regulations

Any clothes affected by the spill should be disposed of to avoid further contamination.

These products are sold and manufactured for industrial use only, Material Data Sheets are available upon request from epoxa us and its affiliates. Epoxa us recommends reading the MSDS completely prior to using the product.

### Transportation

DOT Description

NON-REGULATED BY D.O.T.

DOT information - 49 CFR 172.101

CFR\_ROAD NOT REGULATED FOR TRANSPORT

IATA\_C NOT REGULATED FOR TRANSPORT

IMDG NOT REGULATED FOR TRANSPORT

CFR\_RAIL NOT REGULATED FOR TRANSPORT

Requests made to epoxa us about our products shall be handled by a representative. **For product storage and handling procedures to maintain product quality within our stated specifications, please review Certificates of Analysis, which are available.** Use of other materials in conjunction with epoxa us products may require additional procedures and precautions. Please review and follow the safety information provided by the manufacturer of other materials.

## Limitations

Customers must evaluate epoxa us products and make their own determination as to fitness of use in their particular applications, projects and methods.

From automotive to mining, from electronics to construction, products from epoxa us incorporated lead the way and have become standard products in their respective industries. We have a strong presence in epoxy systems and advanced materials with a 40+ year heritage of innovation and with applications that improve everyday operations. By knowing our customers needs and creating custom technology for them, we provide science based solutions to help customers increase performance, solve product development issues and engineer better manufacturing processes.

## Contact Information

For product prices, availability, or order placement, contact our customer service by visiting [www.epoxaus.com](http://www.epoxaus.com)  
For literature and technical assistance, visit our website or call us with your questions.

**epoxa us products are registered trade marks of epoxa us incorporated and its affiliates.**

## DISCLAIMER

The information provided herein was believed by epoxa us incorporated (collectively with its subsidiaries, and trademarks) to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product, and to determine the suitability of the product for user's intended application or use. All products supplied by epoxa us are subject to epoxa us's standard terms and conditions of sale. **EPOXA US MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY EPOXA US, except that the product shall conform to epoxa us specifications.** Nothing contained herein constitutes an offer for sale of any products.