



SDE SOLVENT UV EPOXY

PRODUCT DESCRIPTION

SDE SOLVENT UV EPOXY A solvent-borne, liquid, air-drying, two pack, cold curing paint, for Industrial and Professional use.

Application is by manual spray, brush and roller after mixing with the appropriate 2 Pack Epoxy Hardener Part B.

It is a heavy-duty paint for metal and concrete surfaces (including floors) and in industrial, marine and polluted environments. It may also be used for articles inside buildings - but which are out of scope of the VOC Product Directive. This product may be force dried (50-100°C). Read product data sheet before use.

INFORMATION ON BASIC PHYSICAL PROPERTIES

Appearance Viscous Liquid.

Colour Various

Odour Aromatic Hydrocarbons. Alcoholic Solubility Immiscible with Water

Initial Boiling Point and Boiling Range 116 - 145°C @ 760 mm Hg

Melting Point (°C) -89°C

Relative Density 1.0 - 1.5 @ 20°C

Vapour Density (air=1) Heavier than Air.

Vapour Pressure 0.49 - 0.67 kPa @ 20°C

pH-Value, Conc. Solution Not Determined.

Flash Point (°C) 21 - 32°C Sh CC (Setaflash closed cup).

Auto Ignition Temperature (°C) 315°C

Flammability Limit – Lower (%) 0.8

Flammability Limit – Upper (%) 12

Other Information Volatile Organic Compound (VOC) 420 - 440 g/litre

APPLICATION:

DUST: You will need to protect the piece from dust accumulation for at least 2 hrs. You can do this by using a dust sheet or a box to cover the piece.

CLEANING: All mixing containers and tools can be cleaned with Acetone or cellulose thinners.

CURING:

Curing conditions 18 to 25 C, 70% humidity maximum.

Pot life 4 to 5 hours (100g @ 23 °C).

Film touches dry in 3 hours. Film hard and sand-able after 12-18 hours.

Full cure 5-7 days or post cure for 8 hours @ 60 °C.

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GENERAL SPECIFICATIONS:

SOLID CONTENT	78 %
MATERIAL CONSUMPTION	1000 g 7 to 8 / m ²
APPLICATION TEMPERATURE	15 – 40 ° C
WORKING TIME (20 ° C)	About 3 to 4 hours
FOLLOW COATINGS (20 ° C)	Within 24 hours
FULL LOAD	7 Days
SHORE D	80
TENSILE STRENGTH	App. 60 MPa
FLEXURAL TENSILE STRENGTH	App. 95 MPa
E-MODULUS	App. 1000 MPa
FILM THICKNESS	Wet: 145-140 Dry : 85-80 Microns
DEW POINT	Min 3 ° C
WATER VAPOUR PERMEABILITY	No
ABRASION RESISTANCE	App. 40 mg loss

(CS-17 wheel, 1kg load, 1000 Cycles)

PHYSICAL PROPERTIES:

RESIN ASPECT	Clear Liquid
HARDENER ASPECT	Clear Liquid
RESIN VISCOSITY	Viscosity 2.5 - 4.5 poise @ 20°C
RATIO OF MIXTURE	3.1

CHEMICAL RESISTANCE:

REAGENT	RATING
ACETIC ACID – 5%	L
LACTIC ACID – 15%	L
ACETONE	L
METHYL ETHYL KETONE	L
BLEACH	L
NITRIC ACID – 10%	L
CITRIC ACID – 30%	R
SODIUM HYDROXIDE – 50%	R
CRUDE OIL	R
SULFURIC ACID – 20%	R
DIESEL FUEL	R
TOLUENE	R
ETHYLENE GLYCOL	R
UREA	R
FATTY ACIDS	L
VINEGAR	L
GASOLINE	R
XYLENE	R
HYDROCHLORIC ACID – 15%	R
SKYDROL	R

R – Recommended

L – Limited Recommendation

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STORAGE:

Shelf life is one year in sealed containers as provided. Keep containers sealed and away from heat or cold.

PACKING:

2.5 KG – 3 KG & 4 KG Containers

HEALTH & SAFETY:

Effects of Over Exposure:

- Eyes: Can cause severe irritation, redness, tearing or blurred vision.
Skin: Can cause irritation, and dermatitis. Not likely to be absorbed in toxic amounts but control measures should be taken to eliminate contact with this product.
Inhalation: Can cause nausea, and respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.
Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, diarrhoea. Aspiration of material into the lungs, can cause chemical pneumonitis which can be fatal.

Chronic Exposure: Amine resins can cause sensitization by exposure through contact or high concentrations of vapour.
Over exposure to this material can cause cardiac abnormalities, anaemia, liver abnormalities, kidney damage or even eye damage.

NOTES:

The information given in this leaflet is based upon laboratory research, as well as extensive field work and application experience. All products are subject to standard conditions of sale which are available upon request. This information is based on **Safety Direct Egypt's** present state of knowledge and is intended to provide general information on **Safety Direct Egypt's** products and their methods of use.

Date of Issue: August 2019

The information given in this data sheet represents test results & practical experience obtained under controlled conditions, and are correct to the best of our knowledge. However, as products are often used under different conditions, we can only guarantee the quality of our product, and reserve the right to change data without further notice.