



SDE HEAVY DUTY UV EPOXY

PRODUCT DESCRIPTION

SDE Epoxy Super UV is a High Mechanical and Chemical Resistance, Transparent flexible Epoxy Coating optically clear system formulated to produce clear laminates, coats, linings, Line marking etc with good UV stability. It is used as a coating where outstanding chemical resistance and mechanical stresses are major requirements.

Available in Antislip format/ gradients

It can be used in drinking - water tanks and food stores.

Complies with ASTM C 881 & ES 1382.

It is easy to use, cures at ambient temperature and is self-levelling. The resin is non-flammable, odour-free and has no solvent content.

MIXING RATIO:

BY WEIGHT: 100: 50

NOTE: The mixing ratio must be accurately followed. It is not possible to change the ratio. This would result in lower mechanical properties and the resin not drying properly. The mixture should be thoroughly stirred to ensure full homogeneity. Epoxy systems tend to heat up much faster in a pot than as a thin film. Therefore mix only the necessary amount usable within the given pot life.

APPLICATION:

- Protective coating for large range of floorings and wall surfaces subject to chemical attack & high mechanical stresses.
- Can be used as screed for industrial floors.
- Repairing mortar for concrete structures.
- Filling of concrete cracks.
- Grouting mortar under supports of machine and steel structures.
- Bonding mortar for most of the building materials and fixing dowels. Available in all RAL and translucent colour's.

ADVANTAGES:

- High resistance against mechanical stresses and chemical effects.
- Ready to use after mixing the 2 components.
- Anti fungus and anti bacteria.

CLEANING:

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

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CURING:

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

Pot life 23 minutes (100g @23 °C).

Film touch dry in 3 hours. Film hard walkable and sand-able after 12 hours.

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

GENERAL SPECIFICATIONS:

SOLID CONTENT	100 %
MATERIAL CONSUMPTION	1 kg / 5 to 6m ²
APPLICATION TEMPERATURE	15 – 30 ° C
WORKING TIME (20 ° C)	About 30 minutes
FOLLOW COATINGS (20 ° C)	Within 48 hours
FULL LOAD	7 D
SHORE D	80
TENSILE STRENGTH	App. 60 MPa
FLEXURAL TENSILE STRENGTH	App. 95 MPa
E-MODULUS	App. 3000 MPa
FLASH POINT	> 100 ° C
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	1000 mPas
HARDENER VISCOSITY	190 mPas
VISCOSITY OF MIXTURE	450 mPas
DENSITY OF MIXTURE	1.1

CHEMICAL RESISTANCE:

REAGENT	RATING
ACETIC ACID – 5%	R
LACTIC ACID – 15%	R
ACETONE	L
METHYL ETHYL KETONE	L
BLEACH	R
NITRIC ACID – 10%	R
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	R
VINEGAR	R
GASOLINE	R
XYLENE	R
HYDROCHLORIC ACID – 15%	R
SKYDROL	R

R – Recommended

L – Limited Recommendation

STORAGE:

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

PACKING:

3 KG UNITS

HEALTH & SAFETY:

Although the resin is user-friendly it is advisable to follow good industrial hygiene e.g. wear gloves & long-sleeved clothing, don't eat/drink when working with the resin.

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.

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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.

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