

PRODUCT DATA SHEET

EPOXY RESIN VO-ER-1100

Description

VO-ER-1100 is a medium – viscosity unmodified liquid epoxy resin based on Bisphenol - A.

A wide variety of curing agents is available to cure liquid epoxy resins at ambient conditions. The most frequently used are aliphatic polyamines, polyamides, amidoamines, cycloaliphatic amines and modified versions of these curing agents. Curing may also be done at an elevated temperature to improve selected properties such as chemical resistance and glass transition temperature. If anhydride or catalytic curing agents are employed, elevated temperature cures are necessary and long post – cures are required to develop full end properties.

Applications

VO-ER-1100 is a general purpose epoxy resin suitable use in applications such as :

- Adhesives
- Casting and Tooling
- Civil Engineering
- Composites
- Automotive Coatings
- Can and Coil Coatings
- Marine & Protective Coatings
- Photocure Industrial Coatings
- Potting and Encapsulation

Typical Properties

Property	Values	Test Methods
Appearance	Pale yellow Clear liquid	
Epoxy Equivalent weight (g/Eq)	183 - 190	ASTM D – 1652
Viscosity at 25 °C (m Pas)	10,000 – 12,000	ASTM D – 445
Colour on Gardner	Max 2	
Hydrolysable Chlorine (wt %)	Max 0.1	
Density at 25 °C (g/ml)	1.15	ASTM D – 4052
Flash Point (°C)	>200	
Shelf Life (Months)	24	

Viscosity v/s Temperature

Temperature	18 °C	25 °C	40 °C
Viscosity	60,000 m Pas	10,000 m Pas	1,500 m Pas

Storage VO – 1100 should be stored in original container tightly closed in dry conditions to avoid crystallization. If crystallization occurs, it can be restored to its original condition by heating it to 70 – 80 °C and stirring it thoroughly.

Handling Precautions Mandatory and recommended industrial hygiene procedures should be followed whenever reactive resin systems are being handled and processed.

However operators are obliged to use personal protective equipment to avoid skin contact with the materials.

Note The information given in this publication is based on the present state of our knowledge but any conclusions and recommendations are made without liability on our part. Buyers and users should make their own assessment of our products under their own conditions and for their own requirements.