EXPO
Group of Companies

ADMIRAL TRADING COMPANY

# EPOXY RESIN SYSTEM FOR VRLA BATTERIES

## Description

Our Epoxy is a reactive diluent modified liquid epoxy resin based on bisphenol A. It is a low viscosity modified aromatic curing agent. When resin and hardener are used in appropriate ratio, provides excellent chemical resistance and mechanical strength within short time. Due to faster reactivity of system, this is used for quick setting adhesive applications. Appropriately cured film withstands variety of chemicals including acid, alkali and solvents.

## Advantages

Solvent free
Low viscosity
Faster reactivity
Excellent chemical resistance

## Applications

High solids coatings
Chemical resistant coating
Adhesive for battery cases

## Safety

Wear personal protective equipment (PPE). Avoid contact with the eyes and skin. In case of direct contact and irritation, it should be washed off immediately with soap and warm water. Avoid breathing vapours, mist or gas. Please refer to the Safety Data Sheet for detailed safety instructions.

## TYPICAL SPECIFICATIONS

| Test | Unit | Reference | Value | |
|---|---|---|---|---|
| | | | Resin | Hardener |
| Description | - | Visual | Clear liquid | Yellow brown liquid |
| Color | GS | ASTM D1544 | Max 1 | Max 15 |
| Viscosity at 25°C1 | m Pas | ASTM D2196 | 1400 - 2600 | 900 - 1900 |
| Epoxy value | eq/kg | ASTM D1652 | 5.0 - 5.5 | -- |
| Amine value | mgKOH/g | ASTM D2073 | -- | 300 - 400 |
| Density | g/ml | ASTM D1475 | 1.10 - 1.20 | 1.10 - 1.20 |

1Viscosity by Brookfield viscometer

## CERTIFICATE OF ANALYSIS

| Test | Unit | Reference | Specification(s) | Results |
|---|---|---|---|---|
| Appearance | -- | Visual | Clear liquid | Clear liquid |
| Colour | GS | ASTM D1544 | Max 1 | 0.5 |
| Epoxy Value | Eq/kg | ASTM D1652 | 5.00 - 5.50 | 5.48 |
| Viscosity at 25°C | mPa.s | ASTM D2196 | 1400-2600 | 1643 |
| Epoxy Equivalent weight | gm/eq | ASTM D1652 | 182 - 200 | 183 |
| Density at25°C | gm/ml | ASTM D1475 | 1.10-1.20 | 1.16 |

## Get in Touch

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