

Araldite[®] CY 8760

Aradur[™] HY 8760

Battery Potting Encapsulation System

General

Araldite[®] CY 8760 with Aradur[™] HY 8760 is a potting system for use in sealed acid and storage batteries. The system was specifically designed for terminal lead potting and housing sealing.

Features

Bonds well to ABS and other thermoplastic housing materials
Excellent sulfuric acid resistance

Benefits

Araldite[®] CY 8760 with Aradur[™] HY 8760 pairs excellent physical properties with relatively low cure temperatures and short cure times. This allows the end-user a high output rate without sacrificing product performance.

| | | |
|----------------------------|-------------------------------------|---------------|
| Typical Properties* | Araldite® CY 8760 | |
| | Viscosity @ 25°C, cPs | 2,000 – 6,000 |
| | Specific gravity, g/cm ³ | 1.13 – 1.17 |
| | As supplied form | Liquid |
| | Color | Light pink |
| | Shelf life, months | 12 |
| | Aradur™ HY 8760 | |
| | Viscosity @ 25°C, cPs | 400 – 1,000 |
| | Specific gravity, g/cm ³ | 1.01 – 1.05 |
| | As supplied form | Liquid |
| | Color | Amber |
| | Shelf life, months | 12 |
| | Mixed | |
| | Gel time at 55°C, min | 7 – 12 |
| | Tg, °C | 80 |

* Typical properties are based on Huntsman's test methods. Copies are available upon request.

Packaging & Storage The products described in this instruction sheet should be stored in a dry place in the tightly closed original containers. Under these conditions their shelf lives will be 12 months from date of shipping. Contact Customer Service for packaging information.

System Preparation Mix using meter-mix dispensing equipment or manually as follows:

Weigh the desired amount of resin into a mixing container whose weight has been tared. Next, weigh the desired amount of hardener into the mixing container with the resin. Mix thoroughly by means of mechanical mixer or manual stirring. Be sure to scrape the sides and walls of the mixing container during mixing. Check for uniform color as a sign of complete mixing. A minimum of one minute of mixing time is suggested – three to five minutes is optimal.

For potting or encapsulating applications, dispense or pour directly into the area to be filled. To minimize air bubbles, de-air under vacuum prior to potting and pour the material into the component in one location – preferably at the lowest point. Do not move the stream of liquid back and forth as this may entrap air. Instead, allow the material to slowly flow around and through the sub-components to be encapsulated at its own speed. Keep the stream of material thin and continuous to assist in breaking any bubbles and to prevent the introduction of additional air.

Mix ratios

| | Parts by weight | Parts by volume |
|-------------------|-----------------|-----------------|
| Araldite® CY 8760 | 100 | 100 |
| Aradur™ HY 8760 | 25 | 28 |

Processing data

(average values)

| | |
|------------------------------------|-----------|
| Initial viscosity, cPs | 1,200 |
| Work life, min | > 10 – 20 |
| Recommended cure time at 65°C, min | 30 |

**Physical Properties
(typical values)**

| | |
|-------------------|----|
| Hardness, Shore D | 85 |
| Tg, °C | 80 |

**Electrical Properties
(typical values)**

| | |
|--|------|
| Overlap shear, psi | |
| Initial | 900 |
| after 1 week in 70°C H ₂ SO ₄ | 800 |
| after 2 weeks in 70°C H ₂ SO ₄ | 770 |
| H ₂ SO ₄ Resistance, % | |
| after 1 week in 70°C H ₂ SO ₄ | 2.16 |
| after 2 weeks in 70°C H ₂ SO ₄ | 2.98 |

**Handling/Safety
Precautions**

Mandatory and recommended industrial hygiene procedures should be followed whenever our **products** are being handled and processed. For additional information please consult the corresponding material safety data sheets.

Araldite® CY 8760

Warning! Causes skin and eye irritation. May cause allergic skin reaction. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Do not breathe dust. Wash thoroughly after handling. Notice! Contains crystalline silica. Breathing dust may cause cancer and delayed lung injury.

Aradur™ HY 8760

Danger! Corrosive – causes skin and eye burns. May be fatal if inhaled. Harmful if swallowed, or if absorbed through the skin. May cause allergic skin and respiratory reactions. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or mist. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. **Notice! Overexposure may cause heart, kidney, liver, and central nervous system damage.**

First Aid**In case of contact:**

Skin: Immediately wash with soap and water. Remove contaminated clothing and lauder before reuse. Destroy contaminated shoes.

Eyes: Immediately flush with water for at least 15 minutes. Call a physician.

Inhalation: Remove to fresh air. Give oxygen if breathing is difficult.

Ingestion: If conscious, give plenty of water. Do not induce vomiting. Call a physician.

Other: Referral to physician is recommended if there is any question about the seriousness of an injury.

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Note

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