

### Product Description

**SWANCOR 901-LSE-TP** is a pre-thixotropic, pre-promoted Bisphenol A type epoxy vinyl ester resin. It contains less styrene content and presents low styrene emission advantage. It exhibits excellent physical properties in boat and pool manufacturing industries. **SWANCOR 901-LSE-TP** is especially adapted to meet the requirements of spray-up and hand-lay-up applications. It also provides very good mechanical strength such as tensile and flexural while incorporated with reinforcement such glass fiber, carbon fiber etc.

### Applications

- ♦ Waste water treatment systems.
- ♦ Food storage tanks and pure water system.
- ♦ Marine and pool manufacturing industries.
- ♦ Corrosion resistant flooring while incorporated with aggregates.

### Fabrication Methods

- ♦ Can be easily applied by hand lay-up laminating, spray-up, pultrusion, and filament winding

### Typical properties of liquid resin

Property	SWANCOR 901-LSE-TP
Appearance	Pinkish translucence liquid
Viscosity <sup>*1</sup>	600±100cps
Gel Time (min) <sup>*2</sup>	35±5
Shelf Life (months/25°C)	3

<sup>\*1</sup> LVT-#3-60rpm, 25°C

<sup>\*2</sup> 6% Cobalt: 0.4phr, 100%DMA: 0.05phr, 55%MEKP: 1.2phr., 25°C

### Typical clear casting properties of cured resin <sup>\*3</sup>

Property	SI	US Standard	Test Method
Tensile Strength	85~95 MPa	12,000~14,000 psi	ASTM D638
Tensile Modulus	3.5~3.7 GPa	5.0x10 <sup>5</sup> ~5.4x10 <sup>5</sup> psi	ASTM D638
Tensile Elongation	3.0~5.0 %	3.0~5.0 %	ASTM D638
Flexural Strength	139~165 MPa	20,000~24,000 psi	ASTM D790
Flexural Modulus	3.4~4.1 GPa	5.2x10 <sup>5</sup> ~5.9x10 <sup>5</sup> psi	ASTM D790
Heat Distortion Temperature <sup>*4</sup>	114~124 °C	237~255 °F	ASTM D648

<sup>\*3</sup> The values refers to SWANCOR 901-LSE and typical property only, not to be construed as specifications.

<sup>\*4</sup> Cure condition for HDT: 24 hours at room temperature then 2 hours at 105°C.

### NOTICE IN USE

1. The gel time of **SWANCOR 901-LSE-TP** is affected primarily by peroxide concentration and temperature. The variations of cure characteristics may be caused by the variations of peroxide, humidity, pigment, fillers and other additives. It is recommended that the fabricators check the cure characteristics with a small quantity resin before proceeding for bulk production.
2. **SWANCOR 901-LSE-TP** contains organic solvent (styrene). Keep away from heat, sparks and flames.
3. **SWANCOR 901-LSE-TP** is a potentially reactive chemical. Please store it in dark and keep away from heat and direct sunshine.
4. Containers, not completely emptied must be closed immediately after use.

*The data presented herein are believed to be accurate and reliable. We require customers to inspect and test our product before use and to satisfy themselves as to contents and suitability for their specific applications. Information herein is to assist customers in determining whether our products are suitable for their applications but not to be taken as a guarantee, express warranty or implied warranty of merchantability or fitness for particular purpose, nor is any protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is limited to replacement of our material and in no event shall we be liable for special, incidental or consequential damages.*

### MATERIAL SAFETY AND HANDLING INFORMATION

#### SKIN CONTACT:

Thoroughly wash exposed area with soap and water immediately. Remove contaminated clothing. Launder contaminated clothing before re-use.

#### EYE CONTACT:

Flush with large amount of water immediately and continuously for 20 minutes, lifting upper and lower lids occasionally. Get medical attention.

#### INGESTION:

Do not induce vomiting. Keep person warm, quiet and get medical attention. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

#### INHALATION:

If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention.

#### PERSONAL PROTECTION:

Do not breathe vapors. High concentration of vapor can be hazardous. Keep out of sewers. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. For large spills, warn public of downwind explosion hazard. Check area with explosion meter before re-entering area. Ground and bond all containers and handling equipment.

### RESIN STORAGE

Keep away from ignition sources; flames, pilot lights, electrical sparks, and sparking tools. NO SMOKING. Do not store in direct sunlight. Store separate from oxidizing materials, peroxides, and metal salts. Keep container closed when not in use. To ensure maximum stability and maintain optimum resin properties, resins should be stored in closed containers at temperatures below 25°C(77°F). Copper or copper containing alloys should be avoided as containers.

### SPILLS

Eliminate all ignition sources (flares, flames, including pilot lights electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent or other absorbent material and shoveled into containers.

### WASTE DISPOSAL

Destroy by liquid incineration in accordance with applicable regulation. Contaminated absorbent should be disposed in accordance to government regulations.

### PACKAGE

Standard packing is 200 kg steel drum.

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