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TECHNICAL DATA SHEET

Revision Date: February 2016

PRODUCT GROUP: SWANCOR 901 VINYL ESTER RESIN

PRODUCT CODE: 901-35

PRODUCT INFORMATION: Swancor 901 (thixed & promoted) Vinyl Ester Resin is a general purpose type resin used in the manufacture of fibreglass reinforced plastic components, and other applications where it is resistant to a broad range of acid base and salt solutions up to 100 Deg. C. Swancor 901 Vinyl Ester Resin is normally supplied thixotropic and promoted to be catalysed by either Interlox SR or Butanox M50 catalysts. Other MEKP catalysts should be first tested before used for the development of a satisfactory level of cure. Where exposure to severe corrosive environments is to be encountered, post curing of laminates is strongly recommended.

TYPICAL APPLICATIONS: Swancor 901 Vinyl Ester Resin is designed for use in hand laminating and spray up fabrication of tanks, fume ducts, piping, chemical process equipment, sewerage and industrial effluent treatment plant, FRP swimming pools, boats, trowelled chemical resistant floor toppings, and other applications where a requirement exists for resistance to corrosive environments.

PHYSICAL PROPERTIES:

Appearance:	Clear, low viscosity, resin solution.
Viscosity	
Brookfield LVT 3/60rpm:	350 - 550 cps. @ 25°C.
Volatile content:	45 -55 % w/w.
Specific Gravity @ 25°C.:	1.03 - 1.05 gm./cc.
Acid Value:	8 - 10 mg. KOH/gm.
Gel time, 100gm. mass @ 25°C., 1% MEKP Butanox M60:	15 - 25 minutes
Storage life @ 25°C.:	3 months in sealed container.

CURED RESIN PHYSICAL PROPERTIES:

Water Absorption - 24 hours @ 25°C.:	0.18 - 0.19 % w/w.
Tensile Strength:	80 - 85 MPa.
Tensile Modulus:	3.00 - 3.30 MPa.
Elongation at Break:	5.00 - 6.00 %
Flexural Strength:	125 - 150 MPa.
Heat Deflection Temperature @ 1.82 MPa Load:	95 - 100°C.
Barcol Hardness - GY2J934-1:	32 - 38

NOTE: The physical properties shown above are typical of the product, when catalysed with 2.0% w/v. MEKP (either of the recommended types listed above), at the time of packaging. As with all products of this type, a degree of drift will occur with aging.

HAZARD CLASSIFICATION:

Chemical Composition:	A solution of unsaturated polyester resin in styrene monomer.
Class:	3.2 Flammable Liquid HFP.
Label:	3.
Pack Code:	III
UN Number:	1866
Hazchem Code:	3 [Y]

Flash Point:

32°C.

Page 2.

Technical Data Sheet Swancor 901 continued.

WARRANTY: Fiberglass (A/Asia) Sales Pty. Ltd. warrants that this product conforms to the product description contained herein. No other guarantee or warranty is expressed or implied, including warranties of merchantability or fitness for a particular purpose. Fiberglass (A/Asia) Sales Pty. Ltd. shall not be liable for incidental, on sequential, or other damages resulting from user negligence, breach of warranty, or any other theory arising out of the use or handling of this product. End users are at all times encouraged to first conduct their own tests on the product to verify its suitability for their intended use.

CHEMICAL RESISTANCE GUIDE:

CHEMICAL	MAX. TEMP.	CONCENT.
	Deg. C.	%
Hydrochloric Acid	83	10
	82	20
	65	37
Sulphuric Acid	99	25
	82	50
	38	75
Nitric Acid	65	5
	50	20
	NR	40
Chromic Acid	65	10
	65	20
	NR	30
Hydrofluoric Acid	65	10
	38	20
Formic Acid	80	10
	35	50
	NR	98
Sodium Hydroxide	82	10
	82	25
	99	50
Potassium Hydroxide	65	10
	65	25
	82	45
Ammonia Aqueous	82	5
	65	15
	38	29
Sodium Hydro chlorite	65	5.25
	82	10
	82	18
Hydrogen Peroxide	65	5
	65	30
Carbon Tetrachloride	65	100
Alcohol	NR	100
EDC	NR	100
Toluene	25	100
Gasoline	82	100