

CORVE8300 is a non-promoted, corrosion resistant, bisphenol A epichlorohydrin based, vinyl ester resin. Its uses include tank relining, pipe fabrication, tank construction, etc. CORVE8300 is manufactured from ingredients listed as acceptable in FDA Code of Federal Regulation Title 21, CFR 177.2420. This resin may be used safely as a component of articles intended for single or repeated use in contact with food as prescribed in the regulation.

FEATURES	BENEFITS
 High Physical Properties 	 Makes extremely tough composites
 Highly Versatile Viscosity Properties 	 Formulated for spray-up and hand lay-up needs
 Outstanding Corrosion Resistance 	 Resists caustics and solvents with hydrolytic stability
 High Heat Distortion Resistance 	 Maintains dimensional stability

LIQUID PROPERTIES	RESULTS
Viscosity, Brookfield Model LV #3 Spindle @ 60 rpm, 77°F (25°C), cPs	400-600
100 grams resin @ 77°F (25°C), promoted with 0.20 grams of 12% Cobalt and	
0.05 grams N, N-Dimethylaniline, initiated with 1.2% MEKP-925H by volume *	
Gel Time, min:sec	16:00-19:00
Gel to Peak Exotherm Time, min:sec	9:00-15:00
Peak Exotherm	330-360°F (165-182°C)
Non-Volatile Content, %	53.5-56.0
Hazardous Air Pollutant (Styrene) Content, %	44.0-46.5
Specific Gravity	1.02-1.05

TYPICAL PROPERTIES								
Thickness	1/8 inch (3.2 mm) Casting			1/8 inch (3.2 mm) Laminate				
Construction	Not Applicable			4 Plies 1.5 oz/ft ² , 30% Glass Mat				
Flexural Strength, ASTM D790	19,400	psi	133	MPa	23,600	psi	163	MPa
Flexural Modulus, ASTM D790	4.9 x 10 ⁵	psi	3,400	MPa	12.0 x 10 ⁵	psi	8,276	MPa
Tensile Strength, ASTM D638	12,400	psi	86	MPa	16,000	psi	110	MPa
Tensile Modulus, ASTM D638	4.8 x 10 ⁵	psi	3,300	MPa	11.0 x 10 ⁵	psi	7,586	MPa
Tensile Elongation, ASTM D638	6.8	%	6.8	%		%		%
Barcol Hardness, 934-1 gauge, ASTM D2583	36		36					
Heat Distortion Temperature, ASTM D648	214	°F	101	°C		°F		°C
Compressive Strength, ASTM D695	-	psi		MPa	30,000	psi	207	MPa
Compressive Modulus, ASTM D695	-	psi		MPa	9.0 x 10 ⁵	psi	6,207	MPa
* Gel time and reactivity will vary due to the type and concentration of Free Radical Initiator (catalyst), shop temperature, humidity, and type of fillers used. In order to meet								

your individual needs consult our technical sales representative for assistance. If using methyl ethyl ketone peroxide (MEKP) to gel and cure CoREZYN® vinyl ester resins we recommend only these three brands: Cadox® L-50a (Akzo Nobel); Luperox® DHD-9 (Arkema); and Norox® MEKP-925H (United Initiators). These must be used at the appropriate percentage and suitable temperature. Contact your Interplastic Corporation representative for assistance.

TYPICAL PROPERTIES, continued							
Thickness	1/4 inch (6.4 mm) Laminate						
Construction	40% Reinforcement**						
Flexural Strength, ASTM D790	33,700	psi	232	MPa			
Flexural Modulus, ASTM D790	11.1 x 10⁵	psi	7,655	MPa			
Tensile Strength, ASTM D638	25,600	psi	177	MPa			
Tensile Modulus, ASTM D638	16.1 x 10⁵	psi	11,103	MPa			
** Laminate Sequence: Veil, 1.5oz/ft ² mat, 1.5oz/ft ² mat, 24oz/ft ² woven roving, 1.5oz/ft ² mat, 24oz/ft ² woven roving, 1.5oz/ft ² mat							

All specifications and properties specified above are approximate. Specifications and properties of material delivered may vary slightly from those given above. Interplastic Corporation makes no representations of fact regarding the material except those specified above. No person has any authority to bind Interplastic Corporation to any representation except those specified above. Final determination of the suitability of the material for the use contemplated is the sole responsibility of the Buyer. Our technical sales representatives will assist in developing procedures to fit individual requirements, but all advice is accepted at your risk and should be checked for suitability of your particular processes. These test data and properties are based on results obtained for a specific material under the specified test conditions. They are not to be used as specifications and are not warranted as performance attributes for any product or system. Specifications and properties of standard production material may vary slightly from those in this report. Interplastic Corporation makes no warranties regarding any material and/or samples described in this report unless that representation is provided to your company in writing by a Technical Director of Interplastic Corporation or one of his or her managers.

INTERPLASTIC CORPORATION

2015 Northeast Broadway Street Minneapolis, Minnesota 55413-1775 651.481.6860 Fax 612.331.4235 www.interplastic.com