

Vinf-pro01 Premium Marine Resin / Hand lay-up and Spray-up

Vinf-pro01 resin is a high performance 100% epoxy vinyl ester resin, that have both excellent processability and superior mechanical properties. Vinf-pro01 resin utilizes the proven history of resilience, blister resistance, excellent fatigue life and toughness of Vinf-pro01 resins with new technology that further increases strength and improves surface profile for the boat builder that demands faultless, long lasting performance.

Greater Resistance to Fatigue Failure
Excellent Surface Profiles with Low Shrink
Increased Hydrolysis Resistance
Exceeds ISO 12215-1 Type "A" mechanical requirements
Exceeds DNV Grade "1" mechanical requirements

Typical liquid resin properties

Property at 25 °C	Value	Unit	Method
Viscosity, cone & plate	220	mPas	ISO 2884
Styrene content	39	%	SFS 4864
Geltime, 1,5% MEKP-50	50	min	D 006

Typical cured resin properties

Property	Value	Unit	Method
Postcured for 24h at 60 °C			
Tensile strength	79	MPa	ASTM D-638
Tensile modulus	3450	MPa	ASTM D-638
Elongation at break	5,2	%	ASTM D-638
Flexural strength	149	MPa	ASTM D-790
Flexural modulus	3620	MPa	ASTM D-790
Heat Deflection Temperature	91	°C	ASTM D-648
Ultimate Heat Deflection temperature*	111	°C	ASTM D-648
* postcured for 2h at 60°C + 3h at 138°C			

Application and use

Vinf-pro01 resin is especially recommended for marine applications using the hand lay-up or spray-up processes. Vinf-pro01 is designed as a premium resin for high performance off-shore motor and sailing yachts, that remain in the water for an extended period of time.

Technical Datasheet

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Certificates and approvals	<p>Vinf-pro01 resin is approved by Lloyd's Register for Special Service Craft.</p> <p>Responsible Care, ISO 9001, ISO 14001 and OHSAS 18001.</p>
Handling and storage	<p>It is highly recommended that all material is stored at stable temperature under 25 °C preferably indoors, and away from sunlight. Prolonged storage outside of recommended conditions can influence liquid resin properties like viscosity and gel time. It is also strongly recommended to mix resin thoroughly before use. Shelf life of Vinf-pro01 is three (3) months.</p>
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