

Technical Datasheet

INEOS Composites

AME™ VPRO // H/S Premium Barrier Coating products

AME™ VPRO // H/S are premium marine barrier coats designed with INEOS Composites's World-Class 100% epoxy vinyl ester technology. These additions to the AME™ product line portfolio enables boat builders to achieve the performance edge of superior surface cosmetics with minimal impact to total cost to produce. AME™ VPRO // H/S properties and benefits to boat builders include:

- Versatile: can be used for any marine surface: above or below the waterline
- Superior blister barrier
- Excellent surface finish profile enhancer
- Maintain integrity of laminate flexibility and other physical properties
- Easy to apply using traditional gelcoat spraying equipment
- Excellent cure properties and sag resistance
- Low emission

Typical liquid resin properties

Property at 23 °C	H (Brush)	S (Spray)	Unit	Method
	Value	Value		
Viscosity, Brookfield, RV4, 10 rpm	10 000	10 000	mPas	ISO 2555
Viscosity, cone & plate	700	300	mPas	ISO 2884
Styrene content	< 35	< 35	%	SFS 4864
Geltime, 2,0% MEKP-50	15	12	min	ASTM D2471

Typical barrier coat base resin properties (cured)

Property at 23 °C 1)	Value	Unit	Method
Tensile strength	72	MPa	ISO 527-2
Tensile modulus	3300	MPa	ISO 527-2
Elongation at break	6,3	%	ISO 527-2
Flexural strength	119	MPa	ISO 178
Heat Deflection Temperature 2)	100	°C	ISO 75
Hardness	32	Barcol	ASTM D 2583
Water absorption 7 days /24 hours	34 / 10	mg	ISO 62

¹ Cured with 2% MEKP, 24h@23°C + 16h@40°C

² Cured with 2% MEKP, 24h@23°C + 3h@80°C + 2h@120°C

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Application and use	AME™ VPRO // H/S are premium barrier coats for brush (H) and spray (S) application. It is recommended to use in the marine or similar industries with demand for the best balance of structural properties and gelcoat surface cosmetics.
Certificates and approvals	The manufacturing, quality control and distribution of products, by INEOS Composites, are complying with one or more of the following programs or standards: ISO 9001, ISO 14001 and OHSAS 18001 by .
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.</p> <p>The material should be used within 5 months from the date of manufacture.</p>
Notice	<p>All information presented herein is believed to be accurate and reliable, and is solely for the user's consideration, investigation and verification. The information is not to be taken as an express or implied representation or warranty for which INEOS Composites assumes legal responsibility. Any warranties, including warranties of merchantability, fitness for use or non-infringement of intellectual property rights of third parties, are herewith expressly excluded.</p> <p>Since the user's product formulations, specific use applications and conditions of use are beyond the control of INEOS Composites, INEOS Composites makes no warranty or representation regarding the results which may be obtained by the user. It shall be the sole responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application.</p> <p>INEOS Composites requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.</p>