

Technical Datasheet

INEOS Composites

MAXGUARD™ SX // AA6 Premium gelcoat

MAXGUARD SX // AA6 premium gelcoats are based on isophthalic, neopentyl glycol polyester resin containing a mixture of styrene and methyl methacrylate. MAXGUARD SX // AA6 premium gelcoats give to the final product:

- Excellent UV resistance
- Shock resistance
- Very good resistance to hydrolysis

Properties at 23°C

	Value	Unit	Method
Density	1,30		QC 16
Viscosity, Brookfield RV4, 100 rpm	1400	mPas	QC 2
Viscosity, Brookfield RV4, 0,5 rpm	100000	mPas	QC 2
Geltime with 2% MEKP-50	12	min	X.Inst.GC03
Film cure with 2% MEKP-50	60	min	X.Inst.GC03
Styrene content	26	%	

Application and use

MAXGUARD SX // AA6 are pre-accelerated gelcoat for airless spray application. Due to its excellent UV resistance and very good water resistance and mechanical properties MAXGUARD SX gelcoats are suitable for use in marine (hulls and decks) or similar industries with high demand for final product surface properties.

When applying the gelcoat, the layer thickness should be between 400 and 800 microns, depending on the intended use of the finished product.

Comparative weatherability tests

Osmosis test	MAXGUARD SX	Standard Iso
Appearance	No blisters	Few blisters

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Gloss deterioration	Minus 10 points	Minus 33 points
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UV test with QUVB lamp apparatus. Duration 100 h	MAXGUARD SX	Standard Iso
Yellowing in Db	2,2	3,6
Gloss deterioration	Minus 9 points	Minus 10 points

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.
Handling and storage	<p>For good working practices, see INEOS Composites's "Gelcoat Handling Guide". The gelcoat must be gently stirred before use. Temperature of workshop, raw materials and tools should be 18 - 25°C and relative humidity below 80%. A high quality MEK peroxide should be used between 1,5 - 2,5%.</p> <p>The material should be used within 5 months from the date of manufacture. Prolonged storage or storage outside of recommended conditions can influence gelcoat liquid properties like viscosity and gel time and it is recommended to test these properties before starting application.</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</p>

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contained herein and the current Material Safety Data Sheet.