

Technical Datasheet

INEOS Composites

MAXGUARD™ SW // H/S Premium Gelcoats for Swimming Pools

MAXGUARD SW // H/S premium quality gelcoats are especially designed for use in swimming pools, combining high UV and blushing resistance with high chemical resistance against chlorine attack. MAXGUARD SW // H/S gelcoats give a smooth and tough high quality surface to fiberglass swimming pools.

Typical liquid gelcoat properties

Properties at 23 °C	H (Brush)	S (Spray)	Unit	Method
	Value	Value		
Viscosity, Brookfield RV4, 10 rpm	13000	7000	mPas	ISO 2555
Geltime, 2% MEKP-50	18	13	min	ASTM D2471

Typical gelcoat base resin properties

Properties (postcure 24h at 50°C)	Value	Unit	Method
Tensile strength	70	MPa	ISO 527
Tensile modulus	3600	MPa	ISO 527
Elongation at break	3,5	%	ISO 527
Flexural strength	125	MPa	ISO 178
Flexural modulus	3600	MPa	ISO 178
Heat Deflection temperature (1,81 MPa) *)*	90	°C	ISO 75-A
Hardness	41	Barcol	ASTM D2583
Water absorption: 28days/7 days/24 hours	75/42/11	mg	ISO 62

*)*post cured 24h at 50 °C +3h at 80°C

Application and use

MAXGUARD SW // H/S pre-accelerated premium gelcoats are designed for use in swimming pools. They are easy to apply and is easy to achieve the final required gelcoat thickness, 600 - 800 microns.

Note: FRP swimming pools are complicated/demanding constructions built of different products

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like gelcoat, resin, glassfiber, peroxide etc., and it is of highest importance that all components are of high quality. Also application, either it is spraying or brushing, and working environment and conditions play a vital role in achieving the best result. Gelcoat user should verify that final properties of the swimming pool match the requested specifications.

For more information, contact your INEOS Composites sales or technical service representative.

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 handling and working practices, see INEOS Composites "Gelcoat Handling Guide". It is highly recommended that all materials are stored at stable temperature under 25 °C preferably indoors, and away from direct sunlight. A high quality methyl ethyl ketone peroxide (MEKP) catalyst should be used between 1.5 - 2.5%. The gelcoat with the catalyst must be gently stirred before taken in use.</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>

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INEOS Composites requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.

More Information

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