Technical Datasheet

INEOS Composites

MAXGUARD™ LEI WG-LEI-5555 Spray White Premium Gelcoat (INSTINT)/ LE Technolog

Maxguard WG-LEI-5555 white gelcoat is a premium spray quality gelcoat base for INSTINT Colour tinting, combining advanced performance with reduced emissions. Maxguard WG-LEI-5555 gelcoat is based on a special isophthalic/NPG resin. The base resin and the gelcoat formula are optimized to give final products excellent mechanical and weathering properties.

Maxguard LEI products are featuring INEOS Composites's patented LE technology, which provides up to 50% less VOC emissions than standard gelcoat. This means a better working environment and savings in gelcoat consumption.

Typical liquid gelcoat properties

Properties at 25 °C[1]	Value	Unit
Viscosity, Brookfield RV4, 20 rpm	5300	cps
Thixotropic Index, 5/50 rpm	5	
Geltime, 1.8% MEKP-9[2]	17	min
% Non Volatiles	69	%

[1] Properties are typical values based on material tested in our laboratories. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.
[2] Registered trademark of Arkema, Inc.

Application and use

Maxguard WG-LEI-5555 white is a premium gelcoat base for spray application. It is recommended for use in the marine or similar industries with high demand for final product surface properties.

Additional information

The economical advantage of using the Maxguard LEI Series spray quality gelcoat with LE Technology compared to a standard gelcoat is a 10-15% lower gelcoat consumption due to improved transfer efficiency from 80% to 90%. These results are based on scale measurement of the total gelcoat amount sprayed and the final amount of gelcoat in the mold. The results correlate well with the infrared measurements. See table.

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	LE Technology	Standard
Styrene content	28%	39%
Spraying time	3 minutes	3 minutes
Gelcoat sprayed¤	3,0 kg	3,0 kg
Gelcoat in mold¤	2,7 kg	2,4 kg
Transfer efficiency	90%	80%
Emission when spraying¤¤	3,6%	7,0%
Total emission¤¤	6,7%	13,6%

¤ by scale measurment

¤¤ by infrared measurment

Certificates and approvals

Maxguard WG-LEI-5555 white gelcoat base complies with the requirements set by classification societies like Det Norske Veritas, Lloyd's Register and Germanischer Lloyd's for building of small crafts.

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

For good handling and working practices, see INEOS Composites "Gelcoat Handling Guide". DOT label: flammable. It is highly recommended that all materials are stored at 25 °C, preferably indoors and away from direct sunlight or heat sources. A high quality methyl ethyl ketone peroxide (MEKP) catalyst should be used between 1.5 - 2.5%. Gelcoats must be gently agitated before use. The commercial warranty period for this product is 90 days from shipment.

All other conditions being equal, higher storage temperatures will reduce product stability and lower storage temperatures will extend product stability.

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Notice

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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.

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