

maxguard®
premium gelcoats

MAXGUARD®
PREMIUM GELCOATS

MAXGUARD® NP // S_ Premium Gelcoat (INSTINT) / LE Technology

MAXGUARD NP // S_ is a premium gelcoat combining advanced performance with reduced emissions. MAXGUARD NP // S_ gelcoat gives the final products excellent cosmetics and UV resistance combined with very good blister resistance and a tough surface.

As MAXGUARD NP // S_ is featuring Ashland's patented LE technology, it provides up to 50% less VOC emissions than standard gelcoat. This means a better working environment and savings in gelcoat consumption.

The new Instint technology has made it possible to offer both gelcoats and topcoats in different gel time versions.

Typical liquid gelcoat properties

Properties at 23 °C	Value	Unit	Method
Viscosity, Brookfield RV4, 10 rpm	10000	mPas	L002
Viscosity, cone&plate	350	mPas	L004
Geltime, 2% MEKP-50			
MAXGUARD NP // SA	12	min	L005
MAXGUARD NP // SC	20	min	L005

Application and use

MAXGUARD NP // S_ is a premium gelcoat for spray applications. 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 MAXGUARD NP // S_ 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.

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



Responsible Care*

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α by scale measurement

αα by infrared measurement

Certificates and approvals

MAXGUARD NP // S_ 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 Ashland Performance Materials, are complying with one or more of the following programs or standards: Responsible Care, ISO 9001, ISO 14001 and OHSAS 18001 by .

Handling and storage

For good handling and working practices, see Ashland "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.

Shelf life of MAXGUARD NP // S_ is 4 months.

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

Notice

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 Ashland assumes legal responsibility. Any warranties, including warranties of merchantability or non-infringement of intellectual property rights of third parties, are herewith expressly excluded.

Since the user's product formulations, specific use applications and conditions of use are beyond the control of Ashland, Ashland makes no warranty or representation regarding the results which may be obtained by the user. It shall be the responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application.

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



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