

Technical Datasheet



MAXGUARD™ GN // H/S Premium Iso/NPG Gelcoat

MAXGUARD GN // H/S are premium gelcoats 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 GN // H/S premium gelcoat surfaces are hard, glossy and tough and they are highly resistant to UV-radiation, gloss deterioration and hydrolysis.

Typical liquid gelcoat properties

Properties at 23 °C	H (Brush)		S (Spray)	
	Value	Value	Unit	Method
Viscosity, Brookfield RV5, 10 rpm	13000	7000	mPas	ISO 2555
Viscosity, cone&plate	900	250	mPas	ISO 2884
Geltime, 2% MEKP-50	13	7	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 , 28 days / 7days/ 24 hours	75 / 42 / 11	mg/sample	ISO 62

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

Application and use

MAXGUARD GN // H/S premium gelcoats are recommended for use in the sanitary, marine or similar industries with high demand of surface properties of composite products.

Certificates and approvals

MAXGUARD GN // H/S are approved by classification societies like Det Norske Veritas, Lloyd's Register and Germanischer Lloyd's for construction of small crafts.

Wash basins with Maxguard GN // H/S gelcoat surfaces complies with the American Thermal Shock test ANSI Z124.3-86 for sanitary applications.

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.



Responsible Care*

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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 GN // H or MAXGUARD GN // S is 5 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

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