Technical Datasheet

INEOS Composites

ENGUARD™ 2000 Series Gelcoats

ENGUARD 2000 series gelcoats are formulated with an ISO/NPG unsaturated polyester. ENGUARD 2000 series gelcoats have met the ANSI Z124.1 and Z124.2 standards and are CSA approved for use in sanitaryware applications.

- Complies with ANSI Z124.1, ANSI Z124.2
- Passes CSA B45.5-94
- Exhibits good color stability and glass retention

Applications and Use

ENGUARD 2000 series gelcoats provide a reliable, weatherable, water resistant finish for a variety of outdoor and indoor applications.

Typical Liquid Gelcoat Properties

Property(1) at 25°C (77°F)	Value	Unit
Viscosity, Brookfield RVT #4 spindle @ 20 rpm	4900 (whites)	cps
	4500 (colors)	cps
	5500 (neutral)	cps
Thix Index, RVT #4 spindle @5/50 rpm	5.5 (whites)	
	6.0 (colors)	

Typical Curing Characteristics

Typical(1) cure data of ENGUARD GC 2000 series gelcoats, using 1.8% MEKP-9 initiator in 100 grams of gelcoat.

Property(1) at 25°C (77°F)	Value	Unit
Gel Time	16	minutes
HDT 2% MEKP type initiator Post Cure: 24 HRS at 50 °C	72	°C

(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.

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Certificates and Approvals	The manufacturing, quality control and distribution of products, by INEOS Composites, comply with one or more of the following programs or standards: Responsible Care, ISO 9001, ISO 14001, and OHSAS 18001.
Standard Package	Non-Returnable Drum with Net Weight of Kg (Lb) DOT Label Requirement: Flammable Liquid
Handling and Storage	For good working practices, see INEOS Composites's "Gelcoat Handling Guide". Store gelcoats between 10-25°C (50-77°F) in a closed, opaque container. Do not leave gelcoat on a mold overnight or over a weekend without laminating on it. Temperature of workshop, raw materials and tools should be 18-25°C (64-77°F) and relative humidity below 70%. Commercial warranty, provided storage at recommended conditions, is 90 days from date of shipment. Storage life decreases with increasing storage temperature. Avoid exposure to heat sources such as direct sunlight or steam pipes. To avoid contamination of product with water, do not store outdoors. Keep containers sealed to prevent moisture pick-up and monomer loss. Mild mixing is recommended after prolonged storage. Rotate stock. All other conditions being equal, higher storage temperatures will reduce product stability and lower storage temperatures will extend product stability.
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 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. 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.

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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.