



NORPOL® CPG Gelcoat

Superior Weather Resistance, Low VOC Emissions
and Processing Robustness

REICHHOLD



NORPOL® CPG for Superior Weather Resistance, Low VOC Emissions and Excellent Application Properties

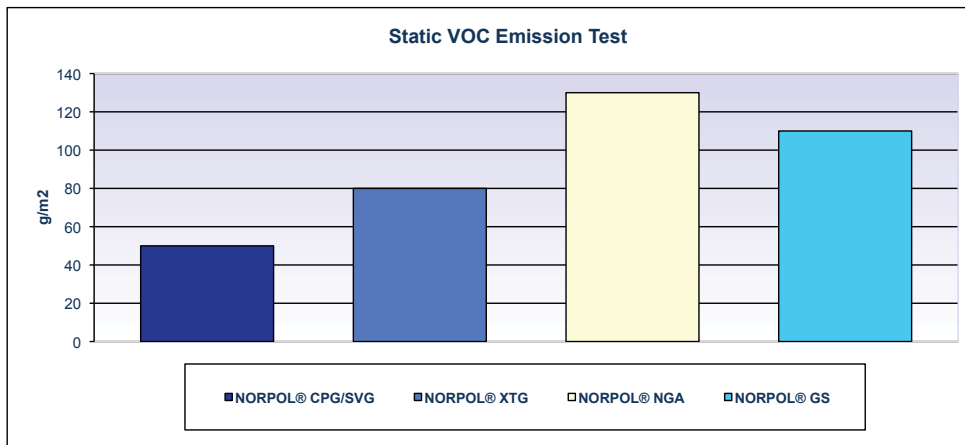
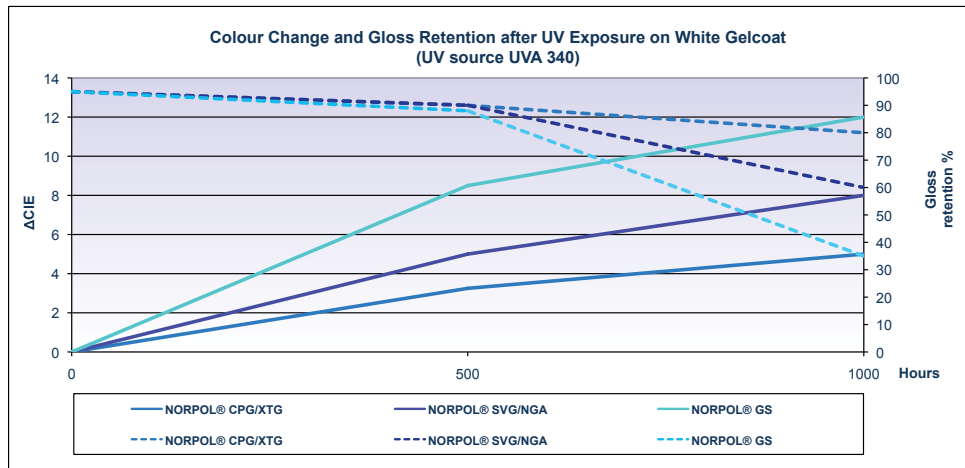
To meet the increased requirements from GRP manufacturers for gelcoats with improved UV properties, low VOC emissions and processing robustness, Reichhold has developed a new gelcoat called NORPOL® CPG.

When developing the NORPOL® CPG gelcoat all the components of the product formulation were examined. A new polyester resin was developed and additives were carefully selected to give NORPOL® CPG its superior product properties.



NORPOL® CPG Superior Performance and Processing Vitality

- Superior weather performance compared to conventional gelcoats (low colour change and high gloss retention)
- Significant reduction in emissions of volatiles compared with conventional gelcoats, VOC emission is reduced by half vs. traditional gelcoats. White spray product contains 30 % volatiles, brush product 25 %
- Styrene is the only monomer, no additional monomers used
- Excellent application properties - easy flow, improved air release properties and curing ensures a consistent gelcoat film
- Easy to sand and repair
- Excellent hydrolytic stability – improved osmosis and blistering resistance for products immersed in water
- Good mechanical properties and film flexibility ensures resistance to micro-cracking
- Applications include boats, components for the wind mill industry, sanitary ware, car body work, cladding panels etc.



Physical Data in liquid State at 23°C

Properties	Unit	Spray quality	Hand quality	Test method
Viscosity:				
- Brookfield RVF sp.4/4 rpm	mPa·s(cP)	10000-16000	14000 20000	A050
- Cone & Plate	mPa·s(cP)	320-400	750-900	A010
Density	g/cm ³	1.15-1.35	1.15-1.35	B020
Flash point	°C	32	32	ASTM D 3278-95
Geltime: 1.5% NORPOL® PEROXIDE 1	minutes	7-20	10-25	G020
Storage stability from date of production	months	6	6	G180

Typical Non-Reinforced Casting Properties (Post Cured)

Properties	Unit	Value	Test method
Tensile strength	MPa	min. 60	ISO 527-1993
Tensile modulus	MPa	min. 3000	ISO 527-1993
Tensile elongation	%	min. 3.0	ISO 527-1993
Heat distortion temp.	°C	min. 75	ISO 75-1993
Hardness Barcol	-	min. 40	ASTM D 2583-99
Water absorption	mg/testpiece	max. 80	Det norske Veritas

REICHHOLD is the world's largest supplier of unsaturated polyester resins for composites and a leading supplier of coating resins for a wide variety of markets and applications.

With its world headquarters in North Carolina, USA, and 19 manufacturing sites and 4 technology centres spread around the world, Reichhold has the widest global reach of any resin supplier today.

For contact information to our sales offices and distributors in Europe, Middle East, Africa and India please see under Composites on our website www.Reichhold.com.

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