



POLAR INDUSTRIES, Inc.

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POLAR PREMIUM - 5000 Series

GREEN UV ENAMEL™ - Non VOC

Applications:

Polar Industry's Green UV Enamel, is a premium quality, one component, Non-VOC, hydrophobic, gloss HiOmega natural oil epoxy coating with UV curing catalyst.

Green UV Enamel is designed for application on walls, trim, ceiling areas, concrete surfaces, roof surfaces. Excellent for clear coat on paper.

Green UV Enamel provides superb durability, chemical resistance, flexible with memory, and washable when applied to properly prepared surfaces.

Green UV Enamel is available in clear and white and can be tinted to a wide variety of custom colours.

PROPERTIES - 5000 Series

Feature	Unit	Value	Measure Method
Pour Point	°C	-10	Factory Prescription
Kin. Viscosity by 23°C	mm ² /s	1344	DIN 53 019
Density sp. Weight	g/cm ³	1069	DIN EN ISO 3675
Working Temperature	45 – 120 °F surface temp	55-77	
Gel time by 23° C (1.5 kg accretion)	min	55	According application
Curing Time	min	30 in sunlight	According application
Set Time	min	4 under UV radiation (250-253 nm)	
Food Grade			

REMARKS FOR PROCESSING:

The optimal processing temperature is given by $12^{\circ}\text{C} \leq T_p \leq 30^{\circ}\text{C}$.

All devices can be cleaned by acetone or a water/acetone mixture.

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RESISTANCE AGAINST CHEMICALS - 5000 Series			
Agent	Findings	Agent	Findings
Solvents Gasoline (Bio) Diesel Methanol Acetone	r r r swelling	Salts NaCl 3 % NaCl Saturated CaCl ₂ Saturated	r r r
Acids HCl H ₃ PO ₄ HCOOH CH ₃ COOH H ₂ SO ₄ HNO ₃	r r r r oxidation oxidation	Lyes NaOH KOH	slow saponification slow saponification
r = resistant			
DISPOSAL Remains can be chopped up and be composted or burned.			
SAFETY PRECAUTIONS Wear protective clothing (including gloves and goggles). Wash with soap/water or acetone/water after handling.			