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**POLAR PREMIUM - 4640 Series - GREEN ROOF EPOXY - Non VOC**

**Applications:**

Green Roof Epoxy, is a premium quality, two component, Non-VOC, hydrophobic, gloss HiOmega natural oil epoxy coating with organic anhydrides and synthetic rubber mixture or silicone dioxide.

Green Roof Epoxy is designed for thick or thin protective coats.

Green Roof Epoxy provides superb durability, chemical resistance, and washability when applied to properly prepared surfaces.

**Mixing By Weight**

**Thin Protective Coating: 4640 Series**

Component "A"	Component "B"	Component "C"	
3	1	4	
"A" – Epoxy "B" – Hardener "C" – Filler		Thinner – LMEE NMT 10%	

**MIXING INSTRUCTIONS:**

Mix each component for 1-3 minutes @ 300 RPM separately (depending on temperature).

Blend in "A" and "B" and stir for 1 minute.

Blend in "C" and stir 1 minute.

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

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

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Properties	Unit	Value	Measure Method
Pour Point	°C	-10	Factory Prescription
Kin. Viscosity by 23°C	mm <sup>2</sup> /s	1344	DIN 53 019
Density sp. Weight	g/cm <sup>3</sup>	1069	DIN EN ISO 3675
Working Temperature	0°F	55-77	
Gel time by 23° C (1.5 kg accretion)	min	55	According application
Curing Time	day	Approx 7 days	According application
Set Time	hours	< 1 day	
Durability of Chemical Component "A" "B"	Month Month	24 Approx 6	20°C in PE container

**RESISTANCE AGAINST CHEMICALS**

Agent	Findings	Agent	Findings
<b>Solvents</b> Gasoline (Bio) Diesel Methanol Acetone	r r r swelling	<b>Salts</b> NaCl 3 % NaCl Saturated CaCl <sub>2</sub> Saturated	r r r
<b>Acids</b> HCl H <sub>3</sub> PO <sub>4</sub> HCOOH CH <sub>3</sub> COOH H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub>	r r r r oxidation oxidation	<b>Lyes</b> 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.