



**POLAR INDUSTRIES, Inc.**

www.polarindustries.net

PO Box 293  
 Fisher Branch, MB  
 R0C 0Z0  
 Tel: 204-372-8482  
 Fax: 204-372-8479

Sales Office: 3801 Howell Bend Ct. Oviedo, Fl. 32765 ♦ Tel. (407) 677-6664 ♦ Fax (407) 678-6684

## Green Poly Pier Foundation - 7040 Series

### MATERIAL AND APPLICATION

7040 Green Poly Pier/Foundation is premium quality two component, non-VOC hydrophobic, natural polyurethane.  
 7040 Green Poly Pier/Foundation is designed for all pier/foundation applications where strength and flexibility are paramount, such as shifting ground, wet ground, porous rock.  
 7040 will bind well with fiberglass of PPG™ origin. Other fibreglasses should be tested for coating compatibility of the fiberglass with the epoxy.

### MIXTURES

Percentage with Sand Gravel	parts of mass		Elasticity Newton/meters	Tensile Strength Newton/meters
	A	B		
8%	3.0	1	Strength in Newton/meters 24 - 28	6.32  Tint to choice.

A: epoxid; B: hardener; C: calcium hydrogen phosphate (add "C" 2-3% as desired)

#### NOTES:

- For pressure applications, 2 component system available.
- different % of components for different applications will result in different qualities of end product fiberglass.
- different % for different fiber glass types – on account of the coverings on different fiberglass base fibers.

### PROPERTIES 7040

Feature	unit	value	measure method
pour point	°C	-10	Factory prescription
kin. viscosity by 23°C	mm <sup>2</sup> /s	----	DIN 53 019
sp. Weight	g/cm <sup>3</sup>	1.17	DIN EN ISO 3675
gel time by 23°C (1.5 kg accretion)	min	55	according application
curing time	d	approx. 7	according application
Hardness	Shore D	>60	
Durability of chemical Component    A B	month month	24 approx. 6	bei 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

**REMARKS FOR PROCESSING**

The components A and B respectively C are stirred together with a slow running agitator by 300 rotations per min. The optimal processing temperature is given by  $12^{\circ}\text{C} \leq T_p \leq 30^{\circ}\text{C}$ . All of devices can be cleaned by acetone or water – acetone mixtures.

**DISPOSAL**

Remains can be chopped up and be composted or burned.