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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 ² /s	----	DIN 53 019
sp. Weight	g/cm ³	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
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

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.