



# WeatherALL Coatings Technologies™

Fort Lauderdale, FL | Atlanta, GA. | Greensboro, NC.

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Scientific Chemical Laboratories, U.S.A.

## TECHNICAL DATA SHEET

Product Name: ToughSkin Poly

**Product Description:**

ToughSkin Poly is a high tear strength, abrasion resistant polyurea specifically engineered to provide protective coating for generally high wear surfaces or components in need of submergible encasing. This material is used in many different industrial and commercial areas on metals, marine submersibles, floating docks, barges, concrete embankments, bridge trusses, composites, etc. It is also used to provide structural integrity to construction projects requiring unitization and assembly protection against harsh environments. Generically it protective sealant skin for an array of structural and non-structural materials.

**Material Property Values and Application Requirements Table**

Property	*Values relative to density	Test Method
Tensile Strength	3365 psi	ASTM D412
Impact	>400 in. lbs	ASTM D2794
Tear Strength	>450 lb/ lin. in.	ASTM D624
Abrasion Resistance	20 mg loss /1000 cycles	ASTM D4060 (CS-17)
Hardness	Shore 45-50D	ASTM D785
Elongation %	>450%	ASTM D412
Application machine: 1500-1800 psi 2-component pumping machine (i.e Graco EXP2), primary heat and hose heat 65°C- 80°C, round pattern spray tip 0.020 mil. <b>**Make 1 pass for desired thickness**</b>		
Mixing Ratio 1A:1B pbv, Power Mix Stir B-Side thoroughly for 10 minutes prior to use until uniform color and viscosity.		
Surface Preparation: clean and dry, no residual cleaner or other contaminates, approved surface type, primer if required, installation ambient temp. 12°C- 36°C , <60% ambient humidity, surface temp. -15°C- 37°C.		
Tack Free Gel Time is 3-5 sec. This material may be top-coated using ProCoat 3000™.		
Functional operation temperature: -40°C- 65°C., Zero VOC.		
Coverage: 0.016 mils per 100 sqft. Wet Spray build to desired thickness.		
See SDS for material safety data. Must wear eye goggles, respiratory protection, gloves, etc.		
KEEP MATERIAL FROM FREEZING, moisture-free temperature controlled storage 12°C- 32°C, 12 month shelf life if never opened. After opening reseal with Nitrogen blanket.		
Packaging: Tote set 550 gal (4900 lbs), 100 gal Drum set (900 lbs), 10 gal Pail set (90 lbs)		

Please contact our Engineering and/or Technical Support Groups with any questions.

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