

Geocel 2300 vs NPC Solar Seal 900

For sealing **aluminum extrusions** in the **Florida climate**, Geocel 2300 is the superior choice over Solar Seal 900 for most applications.

Florida’s unique climate profile presents two primary challenges for aluminum joints: intense daily thermal expansion (aluminum heats up and expands rapidly in the sun) and high humidity/sudden rain showers.

Why Geocel 2300 Wins for Florida Aluminum

- **Extreme Elongation for Aluminum Movement:** Aluminum extrusions (like those used in screen enclosures, window frames, and storefronts) expand and contract significantly. Geocel 2300 boasts over **1000% elongation**. This extreme stretch prevents the sealant from tearing away from the smooth aluminum walls during peak afternoon heat.
- **Damp Surface Adhesion:** In Florida, morning dew or sudden afternoon downpours are constant. Geocel 2300 can be safely applied to **damp aluminum surfaces** without losing its bond. Solar Seal 900 requires a completely dry substrate; any trapped humidity or dew on the aluminum will cause it to bubble or fail to adhere.
- **Rapid Cure Time:** Geocel 2300 achieves a full structural cure in **4 to 5 days**. Solar Seal 900 can take up to **21 days** to fully cure. In a wet, stormy environment, a faster full cure reduces the risk of uncured sealant washing out or trapping water.

Technical Performance Comparison

Characteristic	NPC Solar Seal 900	Geocel 2300 Construction
Primary Chemistry	Terpolymer Rubber Blend	Tripolymer Elastomer
Elongation (Elasticity)	300% to 400% (Firm, rugged stretch)	1062% (Clear) to 1180% (Colors) (Extreme stretch)
Joint Movement	±25% (Class 25)	±25% (Class 25)
Tack-Free Time	1 to 4 hours	45 minutes to 2 hours (Skins faster)
Full Cure Time	Up to 21 days (Slower, solvent-evaporating cure)	4 to 5 days (Much faster structural set)
Damp Surface Bonding	Requires clean, dry substrates	Excellent adhesion to damp surfaces
Application Temp	0°F to 125°F	0°F to 140°F
Service Temp Range	-40°F to 300°F	-40°F to 180°F