## Taylor Metal Products Cool Kynar 500®

All Taylor Metal Products Kynar 500® coatings utilize pigments that are specifically designed to reflect infrared light, help reduce the heat fain of a dwelling, and conform with ENERGY STAR® criteria for steep slope cool roofing products. PVDF is a fluoropolymer that is manufactured under the trademarked names Duranar (PPG) and Kynar 500®. Paint finishes containing a minimum 70% PVDF resin meet the high-performance weathering criteria established by the American Architectural Manufacturing Association and are allowed to carry the Kynar 500® trademarked name.

| **KYNAR 500® SPECIFICATIONS** - Polyvinylidene Fluoride (PVDF)* | | |
|---|---|---|
| | **Aluminum Substrate** | **Coated Steel[1] Substrate** |
| **Paint Standards** | AAMA 620<br>AAMA 2603, 2604, 2605 | AAMA 621 |
| **Dry Film Thickness (nominal)**<br>ASTM D1400 | 0.20 - 0.30 mil primer<br>0.70 - 0.80 mil topcoat | 0.20 - 0.30 mil primer<br>0.75 - 0.90 mil topcoat |
| **Gloss**<br>ASTM D523<br>Standard @ 60°<br>DURANAR LG @ 85° | 25 -35<br><10 | 25 - 35<br><10 |
| **Pencil Hardness**<br>ASTM D3363 | F-2H | F-2H |
| **Anti-Graffiti**<br>ASTM D6578 | Yes | Yes |
| **Flexibility[2]**<br>T-bend, ASTM D4145 | 0-2 T-bend; No pick-off | 0-2 T-bend; No pick-off |
| **Adhesion**<br>ASTM D3359<br>Reverse impact 1/16” crosshatch | No adhesion loss | No adhesion loss |
| **Reverse Impact**<br>ASTM D2794<br>1.5 x metal thickness (aluminum)<br>3.0 x metal thickness (coated steel) | No cracking or adhesion loss<br>No cracking or adhesion loss | No cracking or adhesion loss<br>No cracking or adhesion loss |
| **Acid Resistance**<br>ASTM D1308<br>10% muriatic acid — 24 hrs.<br>20% sulfuric acid — 18 hrs. | No effect<br>No effect | No effect<br>No effect |
| **Acid Rain Test**<br>Kesternich $SO_2$, DIN 50018 | 15 cycles min.<br>No objectionable color change | 15 cycles min.<br>No objectionable color change |
| **Alkali Resistance**<br>ASTM D1308<br>10%, 25%, NaOH, 1 hr. | No effect | No effect |
| **Salt Spray Resistance**<br>ASTM B117<br>5% salt fog @ 95°F | Passes 4000 hrs.<br>Less than 1/16” avg.<br>creepage from scribe:<br>None or few #8 blisters | Passes 1000 hrs.<br>Less than 1/8” avg.<br>creepage from scribe:<br>None or few #8 blisters |
| **Humidity Resistance**<br>ASTM D714<br>ASTM D2247<br>100% relative humidity @ 95°F | Passes 4000 hrs.<br>No #8 blisters | Passes 1500 hrs.<br>No #8 blisters |
| **Exterior Exposure**<br>10 yrs. @ 45°, south Florida<br>ASTM D2244<br>ASTM D4214 | Max. 5 fade<br>Max. 8 chalk | Max. 5 fade<br>Max. 8 chalk |

[1]Coated Steel includes the following types of steel: G90 hot dip galvanized, Galdan, Galvalume, and Zincalume

[2]Fracturing or rupturing of substrate will rupture coatings. Heavy gauge and clad steel substrates impose limitations on formability. DURANAR coatings are generally flexible beyond the point of substrate rupture.

This elite high-performance paint system is extremely durable, providing the most effective long-term protection against color fade and chalking, as well as superior resistance to surface damage encountered under normal environmental conditions. The unparalleled performance of the Cool Kynar 500® paint systems is perfect for residential and commercial buildings.

With 22 standard colors and 5 premium metallic coatings, the Cool Kynar 500® Paint System is certain to provide any project with the highest quality protection and appearance.

