

Island Metals

808-246-6600 www.IslandMetals.com



DURANAR® ULTRA-Cool® heat reflective coating system

PPG Industrial Coatings has produced a new, premium cool coating for metal substrates, called DURANAR ULTRA-Cool coatings. It is premium because it is based on a minimum of 70% PVDF resin technology*. It is new because it dramatically increases the reflectivity of darker colors to such a degree that the product will meet the Cool Roof Rating Council (CRRC) and Energy Star® roofing specifications for Cool Roofs. PPG is a CRRC member and an Energy Star partner and has qualified DURANAR ULTRA-Cool coatings for the CRRC and Energy Star program.

Architects and builders have long known the value of metal roofing. It is virtually seamless; it is light in weight; the coating systems are durable and won't fade, and the color choices are much broader than with any other material. Metal roofing is also produced in an environmentally friendly way and it is definitely the material of choice for re-roofing projects. To these strong arguments we can now add - more heat reflective than most other roofing materials of similar color. One additional percent of reflectivity in a coating, on average, will reduce roof temperature by one degree.

It's the best of both worlds – aesthetic freedom and energy efficiency. DURANAR ULTRA-Cool coatings bring new flexibility to your choice of colors, a full palette of reflective coatings for commercial and residential roofs. DURANAR ULTRA-Cool coatings reflect heat away from buildings, so interior space is cooler. That means considerably lower energy costs. Even with medium to dark colors, DURANAR ULTRA-Cool coatings can help your roof meet the Energy Star specifications for Cool Roofs. Smart colors, smart savings – that's DURANAR ULTRA-Cool coatings.

DURANAR Coatings - A Premium Coating System

Specifications and Procedures Description

DURANAR coatings are premium fluoropolymer (PVDF) coating systems. When applied and cured on properly prepared substrates, DURANAR coatings exhibit exceptional color stability, chalk resistance, durability, abrasion resistance, chemical resistance and flexibility.

Composition

DURANAR coatings shall contain a minimum of 70% fluoropolymer resin. **Substrates**

TruZinc® Hot-dipped galvanized steel • Zinc/aluminum coated steel • Aluminum

Pretreatment

All substrates are to be pretreated in accordance with manufacturer's instructions. The pretreatment is to provide a suitable surface for application of the recommended primer. All systems are subject to prior approval.

The DURANAR coating system, including primer, is to be applied by coil coaters experienced in handling Kynar 500° or Hylar 500° coatings*. Application and curing will be performed according to written procedures of PPG.

Colors

DURANAR coatings are available in a wide selection of preformulated standard colors, a sampling of which is shown on this card.

Metal samples are available upon request. A reasonable degree of color difference may occur when applied to a metal substrate.

Premium coatings are also available in SUNSTORM® pearlescent finishes. Custom colors can also be formulated by special request.

Gloss

DURANAR coatings are normally supplied with a gloss of 30 $\pm\,5$ at 60° per ASTM D-523.

Low Gloss – DURANAR LG coatings are also available on special order, with specular gloss of 5 - 10 at 60° and 5 - 10 at 85° per ASTM D-523.

Film Thickness

Standard film thickness ranges of DURANAR coatings are specified below. Thick film systems are available by special order.

Test Performance for DURANAR and DURANAR ULTRA-Cool Premium Coatings

ASTM Test# (Tests performed according to latest ASTM revision	Performance
ty	
D-1005	0.15 - 0.30 mil primer, 0.70 - 0.90 mil topcoat
D-523	25 – 35
D-3363	HB minimum
D-4145	I-T aluminum
	2-T coated steel**
D-3359	No adhesion loss
D-2794	No cracking or loss of adhesion
D-968	65-85 I/mil
C-267	No effect
D-2248	No effect
E-903-96	
E-1918-97	
	0.25 (25%) minimum
	()
	0.80 (80%) minimum
	()
	No effect
	No effect
	< 5 units color change
	15 cycles minimum, no objectionable color change
	No effect
200 200000 17 200000 (1 1117)	Luca de Policia
B-117	Passes 3,000 hrs aluminum
	Passes 1,000 hrs coated steel**
	Tabbo Tio Could Seed
D-2247	Passes 3,000 hrs aluminum
	Passes 1,000 hrs coated steel**
D 2244	Landahan Farata automakan
	Less than 5 units color change
	Passes 3,000 hrs
D-421	Rating of 8 min
	D-1005 D-523 D-3363 D-4145 D-3359 D-2794 D-968 C-267



