# **TECHNICAL INFORMATION SHEET**



# Kynar 500/Hylar 5000 Pre-Finished Galvanized Steel Architectural Sheet & Coil

#### DESCRIPTION:

CMG Ultra-Clad PVDF Coated Steel Architectural Sheet & Coil is extra smooth, tension leveled, hot-dipped G90 coated steel that is primed and coated on one side with Ultra-Clad full strength Hylar 5000/Kynar  $500^{\circ}$  (contains a minimum of 70% Hylar/Kynar polyvinylidene fluoride (PVDF) resins) premium fluoropolymer coating system of 1.0 ( $\pm$  0.1) mil total dry film thickness. For additional protection a wash coat of .03 - .04 mil dry film thickness is applied to the reverse side. An optional strippable protection film is applied for protection during fabircation and installation. Coated Metals Group Ultra-Clad PVDF Coated Galvanized Steel Architectural Sheet & Coil is for general sheet metal use in building applications and can be utilized for fascia panels, soffits, gravel stops, copings, and roofing such as flat seam, standing seam, batten seam, and mansards.

#### METHOD OF APPLICATION

- 1. Install in accordance with recognized sheet metal practices.
- 2. CMG Ultra-Clad can be cut, formed, and fastened using conventional hand or power tools.
- 3. For best results cutting tool edges should be kept sharp, clean, properly dressed, and closely aligned.
- 4. Fabrication and erection can be accomplished with strippable plastic film in place. Film should be removed from ares of concealed or joined pieces.

#### STORAGE AND PACKAGING:

- 1. CMG metal sheet and coil should be stored in a well ventilated, dry place where no moisture can contact the sheet. Moisture (from rain, snow, condensation, etc.) trapped between layers of material may cause water stains or white rust, which can affect the service life of the material and will detract from its appearance.
- 2. If outdoor storage cannot be avoided, protect the sheet and coil with a ventilated canvas or waterproof paper cover. Do not use plastic, which can cause condensation. Keep the material off the ground in an inclined position with an insulator such as wood.
- 3. Maximum 2,000 lbs of sheets per pallet.

#### PRECAUTIONS & LIMITATIONS:

- 1. Protective film may degrade or become brittle with exposure to direct sunlight.
- 2. The performance of this material in the field depends substaintially on the integrity of the paint film and on the underlying zinc-aluminum coating being intact. Therefore, this Ultra-Clad product should not be used in areas of high abrasion or where it is subject to mechanical damage.
- 3. Product is pre-finished material; care must be exercised during fabrication and erection to avoid surface damage.
- 4. Attention should be paid to good house-keeping practices.
- 5. Tools must be clean and properly dressed.
- 6. Avoid dragging sheets over surfaces which may scratch or mar the finish.
- 7. For general sheet metal use in building applications.
- 8. Do not use with power saws or abrasive blade.

### **PRODUCT DATA**

Color: 32 standard colors; see current Ultra-Clad Color Chart

Finish: Extra Smooth Matte - Low to Medium Gloss

Optional Finish: Inquire

Wash Coat: Polyester

Weight: Gauge:

Ib/SF:

 22ga
 1.25
 .0285min - .0313max

 24ga
 1.00
 .0225min - .0254max

 26ga
 0.75
 .0172min - .0194max

**Dimensions:** 

Gauge In: Slit Coil: Sheet

22, 24, 26ga 4"- 48" 48" x 96", 120, & 144"\*

(10.16cm - 121.92cm) (1.2m x 2.4, 3.1, & 3.7m)

#### **Physical Properties of Fluoropolymer Coating:**

Property	Test Method	Typical	
Abrasion	ASTM D968	Coefficient of sand	
Resistance		abrasion 65±10 liters	
Accelerated	ASTM D4587	Chalk: rating of 8 or	
Weathering	Condition B or ASTM	better per ASTM D4214	
	G23, Method 1 or 2,	method A (ASTM D659)	
	Type EH apparatus	Color: <2ΔE Hunter units	
	or ASTM G151 for	per ASTM D2244,	
	5000 hours exposure	No loss of adhesion	
	ASTM D4587	Chalk: rating of 8 or	
	Condition B or ASTM	better per ASTM D4214	
	G53, Method 1 or 2,	method A (ASTM D659)	
	Type EH apparatus or	Color: <2ΔE Hunter units	
	ASTM G154 for 5000	per ASTM D2244,	
	hours exposure	No loss of adhesion	
	ASTM D4587,	Chalk: rating of 8 or	
	Condition B or ASTM	better per ASTM D4214	
	G23, Method 1 or 2,	method A (ASTM D659)	
	Type EH appartus or	Color: <2ΔE Hunter units	
	ASTM G151 for 2000	per ASTM D2244,	
	hours exposure	No loss of adhesion	

<sup>\*</sup>May not be available in all colors, gauges, or widths.

Additional lead times may apply. Contact Coated Metals Group for additional information

#### Compliance:

Kynar 500/Hylar 500 Paint Finish: AAMA 621-02

# **TECHNICAL INFORMATION SHEET**



## **COATED METALS GROUP**

# Kynar 500/Hylar 5000 Pre-Finished Galvanized Steel Architectural Sheet & Coil

PRODUCT DATA (cont.)						
Adhesion	ASTM D3359	No adhesion loss				
Chalk Resistance	ASTM D4214 Method A and ASTM D659	Maximum Chalk rating of B				
Chemical/Acid Pollution Resistance	ASTM D1308	20% sulfuric acid, 18 hours No effect 10% muriatic acid 15 minutes No effect				
Cyclic Salt Fog	ASTM B5894	2016 hours Passess Scribe: Rating of 8 (1/8" creepage) per ASTM D1654 procedure A Field: rating of 10 (no blistering) per ASTM D1654 procedure B				
Formability	ASTM D522	180° bend around ½" mandrel no cracking No adhesion loss 1-2T bend				
	ASTM D4145					
Specular Gloss	ASTM D523 Measured at 60'	25-35 at 60 degrees				
Hardness	ASTM D3363	HB-2H eagle turquoise				
Humidity Resistance	ASTM D2247	Rating of 10; no blistering, no loss of adhesion				
Impact Resistance	ASTM D2794	Reverse and Direct Impact no cracing, no loss of adhesion				

ASTM B117 5% Salt Fog

@95'F

1000 hours exposure

(1/16" creeapage) per

ASTM D1654 procedure A Field: rating of 10 (no blistering) per ASTM D1654 procedure B

Scribe: Rating of 7

Salt Spray Resistance

# **PRODUCT DATA (cont.)**

Tunnel Test ASTM E84 Class A coating

UV Exposure ASTM D2244 Chalk: rating of 8 or better

per ASTM D4214, method A (ASTM D659) Color: <5ΔE Hunter units per ASTM D2244; no loss of adhesion

Wet Adhesion ASTM D 1500 hours of water

immersion, no loss of adhesion, no blistering

### **Physical Properties of Base Metal:**

Base Metal: G90 coated hot-dipped Galvanized steel sheet;

commercial weight, meeting

ASTM A 653 CS Type B for hot-dipped Galvanized coated

steel sheets & coil

Minimum Yield: 33 to 50 KSI (227 to 310 MPa)

Coefficient of 06.7 x 10-6 in/in/F° (13.9m/m.K x 10-6)

Thermal Expansion:

Modules of Elasticity: 29.0 x 106 x KSI (200 GPa)

Specification: ASTM E111-04

## **COATED METALS GROUP**

301 Yard Dr. • Verona, WI 53593 800-784-0356 • 608-826-0356 • FAX 608-826-4264 www.cmgmetals.com

