

Select Color Collection

MILL STEEL FEATURES

The next generation silicone-polyester Cool Chemistry® system is here! These coatings are not only engineered to give a 40-year film integrity warranty, but also offer high reflectivity in medium and dark colors to such a degree that they help dramatically reduce the energy (and the associated costs) used for cooling, especially in hot, sunny climates.

This premium silicone-polyester system provides the next best exterior durability to Kynar® coatings based on real world exposure testing in South Florida plus energy savings in a full spectrum of colors. The use of proprietary resin technology and inorganic and ceramic pigments provides a coating system that outperforms other silicone-polyester coatings for chalking and fade resistance with a 30-year performance warranty.

In addition to their remarkable “cool” technology, these coatings clean easily, have excellent stain resistance, scratch resistance, and are recoatable. Coupled with a high performance primer, this system affords salt spray and moisture resistance unexcelled in the industry. In addition to offering easier conversion from existing systems, the system’s excellent application properties allow coaters to run at their highest possible line speeds.

Silicone-polyester coatings are ideal for all metal building applications requiring a high performance coating system for metal roofing and walls, including commercial, industrial, agricultural and residential markets.

TSR = Total Solar Reflectance

Actual colors may vary from samples shown. Actual color chips available upon request.



*STEALTH BLACK TSR = .26



*BURNISHED SLATE TSR = .32



*COCOA BROWN TSR = .34



*CHARCOAL TSR = .34



*FERN GREEN TSR = .26



*FOREST GREEN TSR = .31



*EMERALD GREEN TSR = .33



*BURGUNDY TSR = .26



*BARN RED TSR = .35



*BRIGHT RED TSR = .42



*HAWAIIAN BLUE TSR = .33



*COPPER PENNY TSR = .47



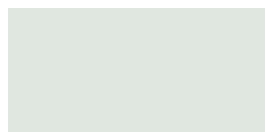
*ASH GRAY TSR = .51



*SAHARA TAN TSR = .51



*LIGHTSTONE TSR = .60



*POLAR WHITE TSR = .67

MILL STEEL COMPANY
BUILDING PRODUCTS

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Film Properties		Test Methods & Descriptions	CERAM-A-STAR®1050	
SUBSTRATE			Hot Dipped Galvanized Galfan & Galvalume®	Aluminum
Dry Film Thickness:		ASTM ¹ D1400, D1005, D4138 (NCCA ² II-13,14,15)	0.20 - 0.25 Mils Primer 0.70 - 0.90 Mils Topcoat	0.20 - 0.25 Mils Primer 0.70 - 0.90 Mils Topcoat
PHYSICAL PROPERTIES				
60° Specular Gloss:		ASTM D523	35%	35%
Pencil Hardness:		ASTM D3363 (NCCA II - 12) Eagle Turquoise Pencil	"F" - Minimum	"F" - Minimum
Flexibility:	T-Bend	NCCA II - 9	2T - No Tape-Off	2T - No Tape-Off
	Mandrel Bend	ASTM D522 180° bend around 1/8" mandrel	No Tape-Off	No Tape-Off
Adhesion:		ASTM D3359 (NCCA II - 5) Reverse Impact Cross Hatch	No Adhesion Loss	No Adhesion Loss
Reverse Impact:		ASTM D2794 (NCCA II - 6) 80 inch-pound impact with a 5/8" steel ball or = 2000 x decimal steel thickness in inches	No Adhesion Loss	No Adhesion Loss
ABUSE TOLERANCE				
Abrasion Resistance:		ASTM D968, Liters to expose 5/32" area of substrate	30 Liters Per Mil of Film	30 Liters Per Mil of Film
	Falling Sand Transit	Based on topside to backer contact in transit after painting	Acceptable	Acceptable
Mortar Resistance:		AAMA ⁸ 605.2 (24 Hour Pat Test)	No Effect	No Effect
Detergent Resistance:		ASTM D2248 3% @ 100°F, 72 Hours	No Effect	No Effect
RESISTANCE TO CORROSION, CHEMICALS & POLLUTION				
Acid Pollutants:		Per ASTM D1308, Proc.6.2:		
	10% Muriatic Acid	24 Hours	No Effect	No Effect
	20% Sulfuric Acid	24 Hours	No Effect	No Effect
	70% Nitric Acid Vapors	AAMA 605.2, ASTM G87 (30 Minutes)	<5 dE Color Change ⁶	<5 dE Color Change ⁶
	Kesternich Test	SO ₂ Cyclic Test, 2 Liters	10 cycles ⁵	10 cycles ⁵
Alkali Resistance:				
	Sodium Hydroxide	ASTM D1308 10%, 25% (1 Hour)	Minimal Effect	Minimal Effect
Salt Fog:		ASTM B117 5% Salt Fog @ 95°F	1000 Hours ⁴	3000 Hours ⁴
Humidity:		ASTM D2247 100% Relative Humidity @ 100°F	1500 Hours ⁷	1500 Hours ⁷
WEATHERING PROPERTIES				
Accelerated Weathering:		ASTM D822, G152, G153 Weatherometer	2000 Hours	2000 Hours
		ASTM D2244 Color	<5 dE Color Change ⁶	<5 dE Color Change ⁶
		ASTM D4214 Chalk	Maximum #8	Maximum #8
EMMAQUA Testing:		Per ASTM D4141	Superior Results	Superior Results
Exterior Weathering:			Superior: Maximum	Superior: Maximum
	Florida Exposure	ASTM D2244 Color	<5 dE Color Change ⁶	<5 dE Color Change ⁶
	10 Years @ 45° South	ASTM D659 Chalk	Maximum #8	Maximum #8
	Film Erosion	AAMA 605.2	Less than 20% film loss	Less than 20% film loss

1 American Society Testing and Materials.

2 National Coil Coaters Association.

3 Higher and lower glosses available upon request.

4 Less than 1/8" creep from scribe. No more than few #8 blisters.

5 No objectionable color change.

6 Hunter d (delta) E color difference units.

7 No more than few #8 blisters.

8 American Architectural Manufacturers Association.

• CERAM-A-STAR® 1050 is a trademark of Akzo Nobel Coatings, Inc.

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