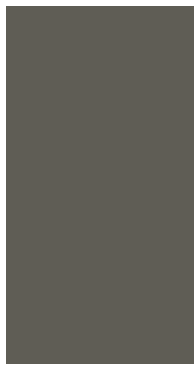


Stealth Black TSR = .26



Burnished Slate TSR = .32



Cocoa Brown TSR = .34



Charcoal TSR = .34

## Cool Chemistry® - Coil Coating System

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 that helps dramatically reduce the energy (and the associated costs) for cooling, especially in hot, sunny climates.

This premium silicone-polyester system provides the next best exterior durability to 70% PVDF coatings based on real world exposure testing in South Florida. It also provides 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 unmatched in the industry.

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.

To learn more about the full range of color and gloss options available from Mill Steel – or to order samples of any color featured on this card – visit [www.millsteel.com](http://www.millsteel.com) or call (877) 262-8333.

\*TSR = Total Solar Reflectance

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

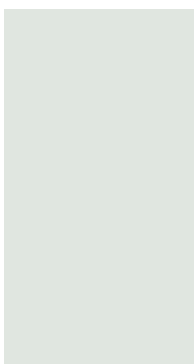
# MILL STEEL

MILL STEEL COMPANY BUILDING PRODUCTS

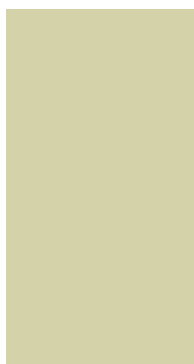
General: 800-247-MILL (6455) • Toll Free: 877-262-8333 • [www.millsteel.com](http://www.millsteel.com)  
100 Finley Ave. West, Birmingham, AL 35204 • 444 E 29th Street, Anderson, IN 46016



## CERAM-A-STAR® 1050



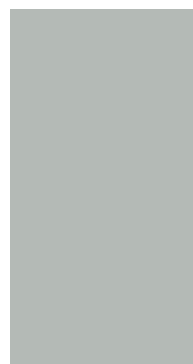
Polar White TSR = .67



Lightstone TSR = .60



Sahara Tan TSR = .51



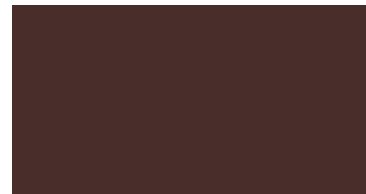
Ash Gray TSR = .44



Forest Green TSR = .31



Emerald Green TSR = .33



Burgundy TSR = .26



Barn Red TSR = .35



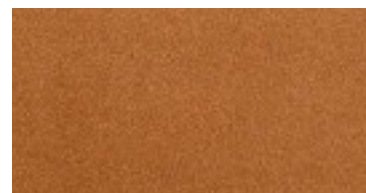
Bright Red TSR = .42



Regal Blue TSR = .26



Hawaiian Blue TSR = .33



Copper Penny TSR = .49

Film Properties		Test Methods & Descriptions	CERAM-A-STAR®1050	
<b>SUBSTRATE</b>			Hot Dipped Galvanized Galfan & Galvalume®	Aluminum
<b>Dry Film Thickness:</b>		ASTM <sup>1</sup> D1400, D1005, D4138 (NCCA <sup>2</sup> 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
<b>PHYSICAL PROPERTIES</b>				
<b>60° Specular Gloss:</b>		ASTM D523	35%	35%
<b>Pencil Hardness:</b>		ASTM D3363 (NCCA II - 12) Eagle Turquoise Pencil	"F" - Minimum	"F" - Minimum
<b>Flexibility:</b>	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
<b>Adhesion:</b>		ASTM D3359 (NCCA II - 5) Reverse Impact Cross Hatch	No Adhesion Loss	No Adhesion Loss
<b>Reverse Impact:</b>		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
<b>ABUSE TOLERANCE</b>				
<b>Abrasion Resistance:</b>		ASTM D968, Liters to expose Falling Sand Transit	30 Liters Per Mil of Film Acceptable	30 Liters Per Mil of Film Acceptable
<b>Mortar Resistance:</b>		AAMA <sup>8</sup> 605.2 (24 Hour Pat Test)	No Effect	No Effect
<b>Detergent Resistance:</b>		ASTM D2248 3% @ 100°F, 72 Hours	No Effect	No Effect
<b>RESISTANCE TO CORROSION, CHEMICALS &amp; POLLUTION</b>				
<b>Acid Pollutants:</b>		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 <sup>6</sup>	<5 dE Color Change <sup>6</sup>
Kesternich Test		SO <sub>2</sub> Cyclic Test, 2 Liters	10 cycles <sup>5</sup>	10 cycles <sup>5</sup>
<b>Alkali Resistance:</b>				
Sodium Hydroxide		ASTM D1308 10%, 25% (1 Hour)	Minimal Effect	Minimal Effect
<b>Salt Fog:</b>		ASTM B117 5% Salt Fog @ 95°F	1000 Hours <sup>4</sup>	3000 Hours <sup>4</sup>
<b>Humidity:</b>		ASTM D2247 100% Relative Humidity @ 100°F	1500 Hours <sup>7</sup>	1500 Hours <sup>7</sup>
<b>WEATHERING PROPERTIES</b>				
<b>Accelerated Weathering:</b>		ASTM D822, G152, G153 Weatherometer	2000 Hours	2000 Hours
		ASTM D2244 Color	<5 dE Color Change <sup>6</sup>	<5 dE Color Change <sup>6</sup>
		ASTM D4214 Chalk	Maximum #8	Maximum #8
<b>EMMAQUA Testing:</b>		Per ASTM D4141	Superior Results	Superior Results
<b>Exterior Weathering:</b>			Superior: Maximum	Superior: Maximum
Florida Exposure		ASTM D2244 Color	<5 dE Color Change <sup>6</sup>	<5 dE Color Change <sup>6</sup>
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

<sup>1</sup> American Society Testing and Materials.

<sup>2</sup> National Coil Coaters Association.

<sup>3</sup> Higher and lower glosses available upon request.

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

<sup>5</sup> No objectionable color change.

<sup>6</sup> Hunter d (delta) E color difference units.

<sup>7</sup> No more than few #8 blisters.

<sup>8</sup> American Architectural Manufacturers Association.

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

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