



CeraGraphe™ AC

TECHNICAL DATA SHEET

1. Description

CeraGraphe™ AC was designed from the ground up as an extremely corrosion resistant coating. This coating is an ideal candidate for metal substrates that need high corrosion impedance. CeraGraphe™ AC is a hybrid organo-polysilazane ceramic coating which distinguishes itself from organic polymer coatings such as epoxies and polyurethanes. As such, its ultraviolet stability and temperature resistance are maximized while maintaining a phenomenal level of corrosion resistance. CeraGraphe™ AC is a 1k, ambient cure, direct-to-metal, low-VOC/VOC-exempt polysilazane containing high performance coating. The fully cured film exhibits a high level of chemical resistance and UV stability. It can be manually or robotically spray applied and quickly switched to paint roller application for larger surface areas.

2. Physical Properties

Type of coating: 1k, ambient cure, direct-to-metal, Low VOC/VOC Exempt, Polysilazane/polysiloxane hybrid system

Gloss: Satin

Color: Grey

Solids Loading: ~80%

Viscosity: Approximately 200 CP

VOCs: Low/Exempt

Minimum Recommended Dry Film Thickness: 3 to 4 mils

Estimate Coverage: 458 Ft²/Gallon @ 3.5 to 4 Mils

Container Availability: 1 Gallon; 5 Gallon; 50 Gallon

Cure Schedule: Tack Free <2 hours; full cure achieved in 3-5 days; accelerator available upon request

Optimal Cure Conditions: 40-60°C / 40-70% RH

3. Physical Performance Properties: Mild Steel

Adhesion (ASTM D3359 Method B)			Rating: 5B						
Corrosion Resistance (ASTM B117, D610, D1654)@ 3-4 mil									
Hours of Exposure:					Rating:				
96					blister:10	scribe:9	red rust:10		
500					blister:10	scribe:9	red rust:8		
1000					blister:TBD	scribe:TBD	red rust :TBD		
Taber Abrasion Resistance (ASTM D4060-19)					15mg loss, 100 cycles, CS-10 Wheels, 1000g load				
Conical Mandrel Bend (AST D522)					4.44 mm cracking length at small end of mandrel				
UV Resistance (ASTM D4587)									
672 hours									
Gloss			Color						
Initial		Final	Initial			Final			
Panel #	Average		L*	a*	b*	L*	a*	b*	ΔE
1	45.3	47.0	38.59	3.65	-1.27	42.12	3.34	-1.49	3.55
2	57.2	47.7	38.19	3.31	-0.91	41.30	3.50	-1.69	3.21

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Mag 7's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, MAG7 SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

MAG7 DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.