

TECHNICAL DATA SHEET

E SERIES

Colors	Item No.	Recommended Cure Temp (F°)	Recommended Mil Thickness (mil)	Gloss Level*	Gloss Units*	Strainer Size (mesh)	Density (g/mL)	% Solids	Viscosity (cP)**	Theoretical Coverage per gal	Coating Stability	Color Stability	Chemical Resistance [†]	Hardness [‡]	Adhesion [‡]	Flexibility [‡]	Impact Performance [‡]		
										@ Recommended Mil Thickness (ft ²)	(F°) Max. Temp.	(F°) Max. Temp.	(Common Solvents & Diesel)	UV Stability	ASTM D3363	Hardness [‡] Scratch ASTM D3363	(Crosscut Adhesion) ASTM D3359	(Conical Mandrel Bend) ASTM D522	Direct /Indirect ASTM D2794
Blackout	E-100	300 ††	.60 - 1.10	Eggshell	12	325 (Part # SE-277)	1.51	53	66	1143	500+	500+	Excellent	Excellent	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
Carbon Grey	E-240	300	.60 - 1.10	Matte	8	150 (Part # SE-276)	1.38	40	33	846	500+	400	Good	Fair	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
Concrete	E-160	300	.60 - 1.10	Matte	9	325 (Part # SE-277)	1.42	43	35	928	500+	350	Excellent	Excellent	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
Earth	E-130	300	.60 - 1.10	Eggshell	12	325 (Part # SE-277)	1.41	43	66	927	500+	400	Excellent	Excellent	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
FDE	E-200	300	.60 - 1.10	Matte	8	325 (Part # SE-277)	1.41	37	34	794	500+	400	Excellent	Excellent	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
Fire	E-310	300	.60 - 1.10	Matte	9	325 (Part # SE-277)	1.41	45	86	965	500+	350	Excellent	Excellent	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
FS 20150	E-190	300	.60 - 1.10	Matte	9	325 (Part # SE-277)	1.41	43	33	928	500+	400	Fair	Excellent	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
Jungle	E-140	300	.60 - 1.10	Matte	9	325 (Part # SE-277)	1.41	43	32	929	500+	350	Excellent	Excellent	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
M17 Coyote Tan	E-170	300	.60 - 1.10	Matte	8	325 (Part # SE-277)	1.42	43	52	928	500+	400	Excellent	Excellent	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
Midnight	E-110	300	.60 - 1.10	Matte	8	325 (Part # SE-277)	1.40	42	55	899	500+	450	Excellent	Excellent	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
Moss	E-210	300	.60 - 1.10	Matte	10	325 (Part # SE-277)	1.36	35	42	758	500+	350	Excellent	Good	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
Navy	E-220	300	.60 - 1.10	Matte	7	325 (Part # SE-277)	1.39	43	76	926	500+	350	Fair	Poor	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
Rebel	E-320	300	.60 - 1.10	Flat	6	325 (Part # SE-277)	1.41	44	51	944	500+	350	Poor	Poor	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
Sand	E-150	300	.60 - 1.10	Flat	5	325 (Part # SE-277)	1.41	43	30	928	500+	350	Excellent	Excellent	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
Smoke	E-120	300	.60 - 1.10	Flat	4	325 (Part # SE-277)	1.40	43	42	917	500+	500+	Excellent	Excellent	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
Stone	E-260	300	.60 - 1.10	Flat	4	325 (Part # SE-277)	1.43	44	45	941	500+	350	Excellent	Good	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
Storm	E-290	300	.60 - 1.10	Eggshell	11	325 (Part # SE-277)	1.46	41	25	883	500+	350	Excellent	Fair	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs
Titanium	E-250	300	.60 - 1.10	Flat	5	150 (Part # SE-276)	1.42	43	58	910	500+	400	Poor	Good	9H	8H	5B	100% Resistance	160 in-lbs/160 in-lbs

All data is based on the following conditions:

18:1 coating to catalyst ratio, 0.75 (.60-1.10) mil dry film thickness, 15 minute ambient flash and 300°F cure for 1 hour.

***Gloss units and levels:**

Gloss units and levels are measured at a 60° angle, 18:1 catalyst ratio, .75 (0.60 - 1.10) mil dry film thickness, 15 minute ambient flash after application and 300°F cure for 1 hour. Durability is significantly affected by preparation, spray technique, mil thickness, cure time, and temperature. Any adjustments to the specified cure conditions will yield different results.

****Viscosity:**

Viscosity measured under ambient conditions (air temperature, relative humidity) at the time of manufacture.

†Recommended Cure Temperature:

Cerakote® can be cured at the maximum Recommended Cure Temperature listed on the TDS and based on color and substrate. Elite Series recommended cure schedule is 300°F for 1 hour. Please reference the Cerakote® Elite and H-Series Application Guide or call for additional cure schedule information.

†† E-100 Blackout: For gloss consistency, the recommended cure temperature is 300°F for 2 hours.

‡Chemical Resistance Testing:

Results refer to color change based on CIE76 formulation. Results range from:

Excellent: ΔE change of <2.5
Good: ΔE change of <3.0
Fair: ΔE change of <3.5
Poor: ΔE change of <4.0

‡Maximum Temperature:

Maximum Temperature is the temperature to which the color or coating is stable.

†Testing parameters are as follows:

Hardness: Hardness or Pencil Hardness Tests are measured from softest to hardest as follows: 9B, 8B, 7B, 6B, 5B, 4B, 3B, 2B, B, HB, F, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H. 9H is the hardest.

Adhesion: Adhesion is measured on a scale of 0B, 1B, 2B, 3B, 4B, 5B, with 5B being the highest achievable rating.

Flexibility: Flexibility or Conical Mandrel Bend: "100% Resistance" is the highest achievable rating and indicates that the coating did not crack or spall.

Impact: Impact Performance is measured on a scale of 0 inch-lbs. to 160 inch-lbs., with 160 inch-lbs. being the highest achievable rating.

All Cerakote coatings are VOC compliant under the EPA and have low to no VOC content. To find out the VOC content of an individual coating please contact sds@nicindustries.com for more information.

This information is accurate to the best of our knowledge, however, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Please feel free to email us at info@cerakote.com or call us at 1-866-774-7628 if you have any questions.

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