

## **ELITE SERIES Technical Data Sheet (TDS)**

Part 1 Pg. 1

Colors	Item No.	Item No. Recommended Cure		Gloss Level*	Gloss Units*	Strainer Size (mesh)	Density (g/mL)	% Solids	Viscosity (cP)**
Blackout	E-100	300 ¶¶	.60 - 1.10	Eggshell	12	325 (Part # SE-277)	1.51	53	66
Carbon Grey	E-240	300	.60 - 1.10	Matte	8	150 (Part # SE-276)	1.38	40	33
Concrete	E-160	300	.60 - 1.10	Matte	9	325 (Part # SE-277)	1.42	43	35
Earth	E-130	300	.60 - 1.10	Eggshell	12	325 (Part # SE-277)	1.41	43	66
FDE	E-200	300	.60 - 1.10	Matte	8	325 (Part # SE-277)	1.41	37	34
Fire	E-310	300	.60 - 1.10	Matte	9	325 (Part # SE-277)	1.41	45	86
FS 20150	E-190	300	.60 - 1.10	Matte	9	325 (Part # SE-277)	1.41	43	33
Jungle	E-140	300	.60 - 1.10	Matte	9	325 (Part # SE-277)	1.41	43	32
M17 Coyote Tan	E-170	300	.60 - 1.10	Matte	8	325 (Part # SE-277)	1.42	43	52
Midnight	E-110	300	.60 - 1.10	Matte	8	325 (Part # SE-277)	1.40	42	55
Moss	E-210	300	.60 - 1.10	Matte	10	325 (Part # SE-277)	1.36	35	42
Navy	E-220	300	.60 - 1.10	Matte	7	325 (Part # SE-277)	1.39	43	76
Rebel	E-320	300	.60 - 1.10	Flat	6	325 (Part # SE-277)	1.41	44	51
Sand	E-150	300	.60 - 1.10	Flat	5	325 (Part # SE-277)	1.41	43	30
Smoke	E-120	300	.60 - 1.10	Flat	4	325 (Part # SE-277)	1.40	43	42
Stone	E-260	300	.60 - 1.10	Flat	4	325 (Part # SE-277)	1.43	44	45
Storm	E-290	300	.60 - 1.10	Eggshell	11	325 (Part # SE-277)	1.46	41	25
Titanium	E-250	300	.60 - 1.10	Flat	5	325 (Part # SE-277)	1.42	43	58

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

\*Gloss units and levels are measured at a 60° angle, 18:1 coating to 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.

¶Recommended Cure Temperature: Cerakote® should be cured at the maximum Recommended Cure Temperature listed on the TDS, but is also based on 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: ∆E change of <3.5 Poor: ∆E change of <4.0

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

## †Testing parameters are as follows:

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

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

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**<sup>\*\*</sup>Viscosity is** measured at the time of manufacture under ambient conditions.

Colors	Item No.	Corrosion Resistance ASTM B117 (hours)	Coating Stability (F°) Max. Temp.	Color Stability (F°) Max. Temp.	Chemical Resistance‡ (Common Acid, Base, Solvents & Diesel)	UV Stability	
Blackout	E-100	4000+	500+	500+	Excellent	Excellent	
Carbon Grey	E-240	4000+	500+	400	Good	Fair	
Concrete	E-160	4000+	500+	350	Excellent	Excellent	
Earth	E-130	4000+	500+	400	Excellent	Excellent	
FDE	E-200	4000+	500+	400	Excellent	Excellent	
Fire	E-310	TBD	500+	350	Excellent	Excellent	
FS 20150	E-190	4000+	500+	400	Fair	Excellent	
Jungle	E-140	4000+	500+	350	Excellent	Excellent	
M17 Coyote Tan	E-170	4000+	500+	400	Excellent	Excellent	
Midnight	E-110	4000+	500+	450	Excellent	Excellent	
Moss	E-210	4000+	500+	350	Excellent	Good	
Navy	E-220	TBD	500+	350	Fair	Poor	
Rebel	E-320	TBD	500+	350	Poor	Poor	
Sand	E-150	4000+	500+	350	Excellent	Excellent	
Smoke	E-120	4000+	500+	500+	Excellent	Excellent	
Stone	E-260	TBD	500+	350	Excellent	Good	
Storm	E-290	TBD	500+	350	Excellent	Fair	
Titanium	E-250	4000+	500+	400	Poor	Good	

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- Adhesion is measured on a scale of 0B, 1B, 2B, 3B, 4B, 5B, with 5B being the highest achievable rating.
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Colors	Item No.	Hardness† Gouge ASTM D3363	Hardness† Scratch ASTM D3363	Adhesion† (Crosscut Adhesion) ASTM D3359	Flexibility† (Conical Mandrel Bend) ASTM D522	Impact Performance† Direct ASTM D2794	Impact Performance† Indirect ASTM D2794	Theoretical Coverage per gal @ Recommended Mil Thickness (ft²)
Blackout	E-100	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	1143
Carbon Grey	E-240	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	846
Concrete	E-160	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	928
Earth	E-130	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	927
FDE	E-200	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	794
Fire	E-310	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	965
FS 20150	E-190	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	928
Jungle	E-140	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	929
M17 Coyote Tan	E-170	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	928
Midnight	E-110	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	899
Moss	E-210	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	758
Navy	E-220	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	926
Rebel	E-320	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	944
Sand	E-150	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	928
Smoke	E-120	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	917
Stone	E-260	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	941
Storm	E-290	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	883
Titanium	E-250	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	910

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