

Colors	Item No.	Recommended Cure Temp (F°)†	Recommended Mil Thickness (mil)	Gloss Level*	Gloss Units*	Strainer Size (mesh)	Density (g/mL)	% Solids	Viscosity (cP)**
Blackout	E-100	300	0.5 - 2.0	Eggshell	19	325 (Part # SE-277)	1.51	53	66
Concrete	E-160	300	0.5 - 2.0	Matte	9	325 (Part # SE-277)	1.42	43	35
Earth	E-130	300	0.5 - 2.0	Eggshell	12	325 (Part # SE-277)	1.41	43	66
FDE	E-200	300	0.5 - 2.0	Matte	8	325 (Part # SE-277)	1.41	37	34
Federal Standard 20150	E-190	300	0.5 - 2.0	Matte	9	325 (Part # SE-277)	1.43	43	33
Jungle	E-140	300	0.5 - 2.0	Matte	9	325 (Part # SE-277)	1.39	43	32
M17 Coyote	E-170	300	0.5 - 2.0	Matte	8	325 (Part # SE-277)	1.43	43	52
Midnight	E-110	300	0.5 - 2.0	Matte	10	325 (Part # SE-277)	1.40	42	55
Sand	E-150	300	0.5 - 2.0	Flat	5	325 (Part # SE-277)	1.43	43	30
Smoke	E-120	300	0.5 - 2.0	Flat	4	325 (Part # SE-277)	1.40	43	42

All data is based on the following conditions: 18:1 catalyst ratio, 0.75 mil dry film thickness, and 300°F cure for 1 hour.

\***Gloss units** and levels are measured at a 60° angle, 18:1 catalyst ratio, 0.60 - 1.10 mil dry film thickness, 15 minutes ambient flash after application and prior to going into oven, 300°F cure for 1 hour. Adjustments to these conditions will yield different results. Gloss is affected by spray technique and quality of preparation and finish.

\*\***Viscosity** measured at ambient 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. Curing at 300°F degrees is done for 1 hour. Please reference the Cerakote® Elite and H-Series Application Guide for additional cure schedule information.

‡**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** 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.

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](mailto:info@cerakote.com) or call us at 1-866-774-7628 if you have any questions.

# Elite Series Technical Data Sheet (TDS) Cont.

Part 2 Pg. 1

Colors	Item No.	Corrosion Resistance ASTM B117 (hours)	Coating Stability (F°) Max. Temp.	Color Stability (F°) Max. Temp.	Non-Exempt VOC Content per US EPA Regulation (ppm)	Chemical Resistance‡ (Common Solvents & Diesel)	UV Stability
Blackout	E-100	4000+	500+	500+	0	Excellent	Excellent
Concrete	E-160	4000+	500+	350	0	Excellent	Excellent
Earth	E-130	4000+	500+	400	0	Excellent	Excellent
FDE	E-200	4000+	500+	400	0	Excellent	Excellent
Federal Standard 20150	E-190	4000+	500+	400	0	Fair	Excellent
Jungle	E-140	4000+	500+	350	0	Excellent	Excellent
M17 Coyote	E-170	4000+	500+	400	0	Excellent	Excellent
Midnight	E-110	4000+	500+	450	0	Excellent	Excellent
Sand	E-150	4000+	500+	350	0	Excellent	Excellent
Smoke	E-120	4000+	500+	500+	0	Excellent	Excellent

All data is based on the following conditions: 18:1 catalyst ratio, 0.75 mil dry film thickness, and 300°F cure for 1 hour.

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- **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.

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v.11/12/19

# Elite Series Technical Data Sheet (TDS) Cont.

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 (ft <sup>2</sup> )
Blackout	E-100	9H	8H	5B	100% Resistance	160 in-lbs	160 in-lbs	1143
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
Federal Standard 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	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
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

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- **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.
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