



Testing Department Abstract Report

Carbothane 134 HG

PHYSICAL CHARACTERISTICS

Generic Type:	Aliphatic Acrylic Polyurethane
Description:	Thin film, high gloss finish with exceptional weathering performance characteristics. Used extensively in virtually all industrial or architectural markets, 134 HG provides a smooth, durable finish that has superior resistance to corrosion, abrasion and chemical exposure.
Solids By Volume :	70%
VOC's (as supplied):	2.2 lbs./gal.
DFT Range (per coat):	2.0-2.5 mils
Colors:	Available in Rapid Tint Service
Finish:	Gloss

FEATURE / BENEFIT CHARACTERISTICS

- Excellent weatherability
- Exceeds SSPC Paint 36 specification for a Level 3 urethane
- High solids, low VOC content
- Excellent flow characteristics allow for application by spray or roller
- Superior impact and abrasion resistance
- Available in all Carboline colors including metallic-pigmented colors
- Indefinite recoatability
- VOC compliant to current AIM regulations

APPLICATION CHARACTERISTICS

Minimum Ambient Temp: 35F
Pot Life: 4 Hours @ 75F
Mix Ratio: 4:1 (A toB)

Curing Schedule

Dry to Handle (Minimum)
75F: 8 hours

Dry to Recoat
75F: 8 hours

From the Carboline Testing Center

The technical data furnished are true and accurate to the best of our knowledge. However, no guarantee of accuracy is given or implied.



PERFORMANCE DATA

TEST/METHOD	CONDITIONS	SYSTEM	RESULTS	REPT. REF.
Adhesion ASTM D4060	CS-17 Wheel, 1,000g load, 1,000 cycles	Carbothane 134 HG	70 mg.	09360
ASTM D4541	Pneumatic Tester, psi	Epoxy Primer / Carbothane 134 HG	2,562	09360
ASTM D3359	X-cut Knife Test	Epoxy Primer / Carbothane 134 HG	5A	09360
Flexibility ASTM D522	Cylindrical Mandrel	Carbothane 134 HG	Pass 1/8 ; greater than 32% elongation	09360
Pencil Hardness ASTM D3363	Pencil Test	Epoxy Primer / Carbothane 134 HG	H	09360
Impact ASTM D2794	Gardner Impact Tester, Direct (intrusion), 1/8 steel substrate, inch-pounds	Carbothane 134 HG	155; no visible cracking	03259
Weatherometer ASTM G26	Xenon Arc light, Type EH; 2,000 hrs	Epoxy Primer / Carbothane 134 HG	No blistering, rusting or cracking; gloss retention greater than 85%; color change less than 1 McAdam unit.	09360
Weathering Resistance ASTM D4587	Method D, UV A-340 Bulbs 8 hrs UV/60C followed by 4 hrs @ 45C condensation; 3,000hrs	Organic Zinc Primer / Epoxy / Carbothane 134 HG	No rusting, blistering or loss of adhesion; less than 5% gloss loss.	03390*
Immersion Resistance	Fresh water @ 75F, 30 days Salt water (5% aqueous sodium chloride) @ 75F, 30 days	Organic Zinc Primer / Epoxy / Carbothane 134 HG Organic Zinc Primer / Epoxy / Carbothane 134 HG	No rusting in the scribe, no blistering, softening or discoloration of the coating. No rusting in the scribe; no blistering, softening or discoloration of the coating	03390*
Salt Fog ASTM B117	3,000 hrs	Organic Zinc Primer / Epoxy / Carbothane 134 HG	No rusting, blistering, loss of bond or any measurable creepage from the scribe mark	03390*

Coatings were tested at the recommended thickness, applied over steel, abrasive blasted in accordance with SSPC-SP10, unless otherwise noted.

*Report by a qualified, independent test agency is available.

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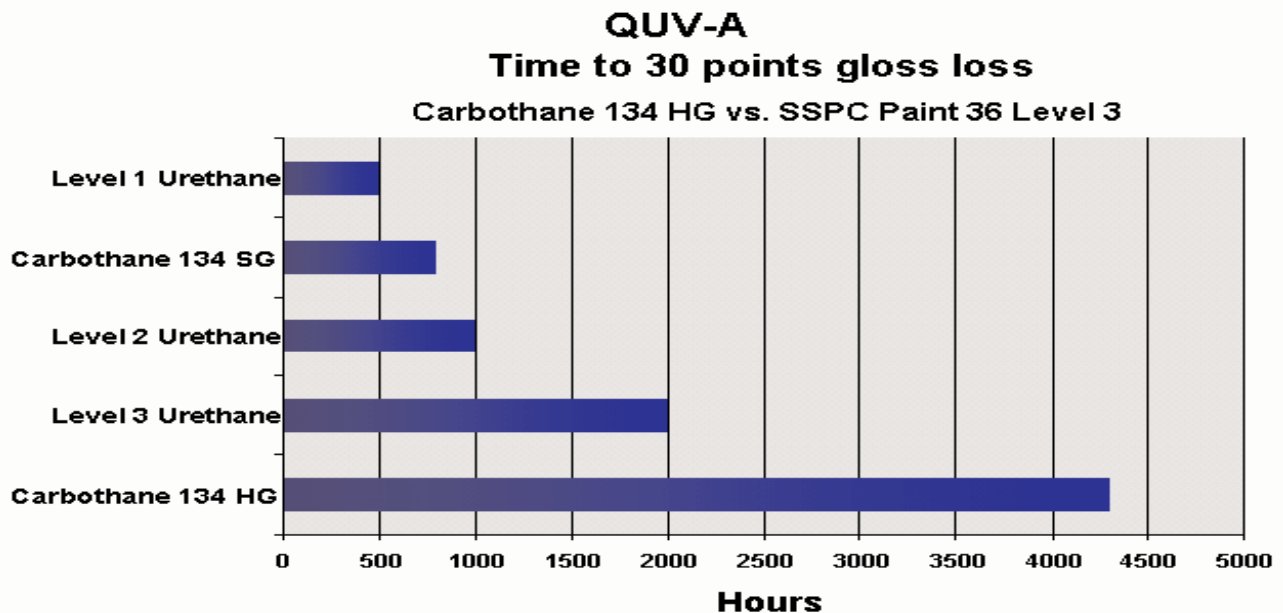


Carbothane 134 HG far exceeds the SSPC Paint 36 Level 3 requirement for gloss retention and color shift. SSPC SSPC-Paint 36 defines three separate performance levels for two-component, weatherable, aliphatic, polyurethane coatings, as outlined below.

Level	South Florida Exposure	QUV-A Exposure
1	12 months*	500 hours*
2	24 months*	1000 hours*
3	48 months*	2000 hours*

*Time to noticeable change. Noticeable change is defined as a gloss loss of no than 30 units or more than 2ΔE color units.

Carbothane 134 HG surpasses the Level 3 QUV-A exposure requirement by more than 2-fold. Furthermore it maintains its initial gloss of 90-80% beyond the Level 2 exposure requirement.



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