



The Shepherd Color Company  
We Brighten Lives

The Shepherd Color Company  
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## QUV Accelerated Weathering Study

Customer: MGM Industries  
Initial Date: 9/20/10  
Report Date: 1/5/2011

Project: 53773  
LABS ID: WE4116

### TEST METHOD

Exposure was performed in a Q-Lab QUV Accelerated Weathering Tester

Exposure conditions were set according to ASTM G154-04, cycle 4 (see table X2.1)

Lamps: UVA340 (approximately 340 nm radiation)  
Irradiance: 1.35 W/m<sup>2</sup>/nm  
Exposure Cycle: 8 hours UV exposure at 70°C  
4 hours condensation exposure at 50°C  
Exposure Duration: 2000 hours

### TEST RESULTS

Shepherd Color / IVC Coating System - QUV Weathering Results										
Original (Unexposed)					2000 Hours of Exposure					
L*	a*	b*	Gloss	% TSR	DL*	Da*	Db*	DE*	Gloss	%TSR
32.5	0.5	0.9	34	24	0.9	0.1	0.0	0.9	11	28

### CONCLUSION

Normally, a DE\* of less than 3 units is considered acceptable after QUV exposure of 2000 hours. This test showed a DE\* of 0.9 after 2000 hours. This DE is within the normal color standards at the time of manufacture. Based on these results, there should be no significant difference between the 2000 hour test specimen and the original color chip provided.

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