



NEVADA DEPARTMENT OF TRANSPORTATION - RESEARCH SECTION

EXTERNAL PRODUCT/MATERIAL ACCEPTANCE CRITERIA
QPL Section 502.02.04b – CONCRETE PAINT

Category Description: Paint used for concrete surfaces.

Primary Evaluating Section: Materials

Evaluation Criteria (adopted 09/10/2019):

Requirement	Criteria	Test
Composition	100% Acrylic	Pass/Fail
Volatile Organic Compounds (VOCs)	ASTM D3960	Max. 100 g/L
Dry Time (Dry-to-Touch Time)	ASTM D1640, Method A	Max. 1 hour
Cure Time (Dry-to-Recoat Time)	ASTM D1640, Method A	Max. 4 hours
Gloss	ASTM D523	Max. 10 gloss units @ 60°
Permeability	ASTM D1653, Method A	Max. 10 Perms
Adhesion to Concrete	ASTM D7234	Failure in substrate
Resistance to Accelerated Weathering	ASTM G154	No deleterious effect after 3,000 hours. No chalking or flaking per ASTM D4214.
Resistance to Natural Sunlight	ASTM G90	Max. 1 CJE unit color and gloss change @ 18,000 Megalous of radiation exposure.
Resistance to Wind Driven Rain	ASTM D6904	0 penetration after 24 hours @ 5 inches of water pressure.
Resistance to Salt Spray	ASTM B117	No deleterious effects. No color fade after 500 hours.
Abrasion Resistance	ASTM D968, Method A	Min. 25 L/mil

Submit independent laboratory testing which demonstrates conformance to the above stated criteria. **Do not submit samples at this time.** If your application passes the initial screening, NDOT will contact you to request a one-gallon sample of paint, in each color being evaluated, for purposes of establishing a baseline for future comparison.