

NEVADA DEPARTMENT OF TRANSPORTATION - RESEARCH SECTION

EXTERNAL PRODUCT/MATERIAL ACCEPTANCE CRITERIA QPL Section 646.02.05 – LIQUID MEMBRANE

Category Description:	A spray-on liquid waterproofing membrane for bridge decks. Installed between the
	bridge deck and the wearing surface to delay deterioration of the structure.
Primary Evaluating Section:	Structures

Evaluation Criteria (adopted 09/12/2017):

Criteria	Requirement and Test Method	Result
Adhesion to Concrete	150 psi through ASTM D-4541 (steel deck) or ASTM D-7234 (concrete deck)	Pass/Fail
Cure Time	30 minutes	Pass/Fail
Dry Film Thickness	110 to 120 mils through SSPC PA-2 (steel deck) or SSPC PA-9 (concrete deck)	Pass/Fail
Dynamic Crack Bridging	Pass at 10 cycles, -15°F, through ASTM C-1305	Pass/Fail
Elongation at Break	250% min at break, 0% damage, through ASTM D-638 Die C	Pass/Fail
Gel Time	6 to 11 minutes	Pass/Fail
Tensile Strength	2500 psi minimum, 0% damage, through ASTM D-638 Die C, Heat Ageing @ 160°F (4 weeks)	Pass/Fail
Water Vapor Permeance	1.0 perm through ASTM E-96, Method A (Method B also acceptable)	Pass/Fail
NDOT Fieldtesting	Successful completion of a field test at least 2 winters in duration at an installation of NDOT's choosing	Pass/Fail

To Begin the application process:

Go to https://www.nevadadot.com/doing-business/about-ndot/ndot-divisions/planning/research/product-evaluation

Complete the applications for product evaluation and field testing, attach all supporting documentation Attach the product data sheets and technical bulletins

Attach current SDS sheets for all components of product

Attach instructions for installation

Attach list of limitations and precautions

Attach warranty information (if any)

Attach independent laboratory testing results documenting product performance in the above listed tests Attach copies of other successful installations on bridge decks and acceptance letters from other DOT's QPL/APL Submit the application package electronically, and print three hard copies of the application package. Retain one copy of the application package for your records, mail the other two hard copies to:

Product Evaluation Coordinator Nevada Department of Transportation 1263 S. Stewart Street, C803 Carson City, NV 89712

DO NOT SUBMIT SAMPLES AT THIS TIME