Transportation Research & Innovation Division

Post Winter Inspection #2
Matacryl Waterproof Membrane System
5/25/2020
**Introduction**

In 2018, The Maine Department of Transportation in collaboration with FPT Infrastructure (formerly Tremco, Inc. and RPM Belgium Vandex Group) applied their Matacryl waterproof membrane (WPM) system to a bridge deck in Palermo, Maine. This installation is also a field evaluation test deck for AASHTO Product Evaluation List (APEL)

**Project Location**

The waterproof membrane test deck is located in Palermo on Route 3, Bridge #2758. This bridge is also known as the Sheepscot Bridge and spans over a section of the Sheepscot River (shown below), the deck measures 46.7 ft. wide by 176 ft. long. The bridge was originally built in 1974 and reconstructed in 1995.

![Map of Sheepscot Bridge](image)

**Inspection Scope**

Maine Department of Transportation inspects waterproofing membranes for two years after installation before including them on any QPL. The goal of the inspection was to gather data
and information to assist the Department in making an objective decision regarding the performance and viability of the Matacryl WPM system.

### Inspection

The second and final post winter inspection was completed on May 25, 2020. The inspection was a visual inspection. Photos were also taken at the time of the inspection (see table below). Maine DOT has recently acquired an infrared camera and some of the photos were also included for informational purposes as this was not available for the installation or first post winter inspection.
Conclusions

The Matacryl waterproof membrane system. The inspection did not reveal any signs of moisture penetration. As noted in the photos above, the underside of the bridge deck was dry. There was no evidence of bonding issues and the bridge deck does not show sign of delaminating. Based on the data collected throughout the two-year evaluation of this system, the system will be added to the Maine Department of Transportations’ Qualified Products List for Waterproofing Membranes.

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