

# Alberta Transportation Product List Trial Asphalt Pavement Patching - Proprietary Vegreville, AB



## Construction Notes

**Date:** May 10, 2017

**Product ID:** 8020-19

**Trial Timeline:** 1 year

**Address:** Hwy #16 WB @ Regional Rd 150

**Installers:**

- Jim Mears – Carillion

**Others Attending:**

- Joe Filice – Alberta Transportation
- Gary Faas – Alberta Transportation
- Rod Zaharko – Alberta Transportation
- Caroline Todd – Corix Water Products
- Derek Geisel - strataWORKS

**Weather:** 15 degrees, overcast

**Construction Material:**

Unique Paving Materials (UPM) Permanent Asphalt Repair Cold Mix from strataWORKS Canada

- The cold mix material was supplied to Carillion in a 2000lb tote
- Carillion picked the material up in Edmonton the previous day and left in their garage overnight
- Carillion selected centre line cracks on Hwy #16 (Pic 1). The cracks were swept out of debris and UPM was installed by shovel into the cracks. The product was then compacted 3 different ways, hand tamped (pic 2), 5 ton truck tire roll (pic 3) and traffic compaction (pic 4).



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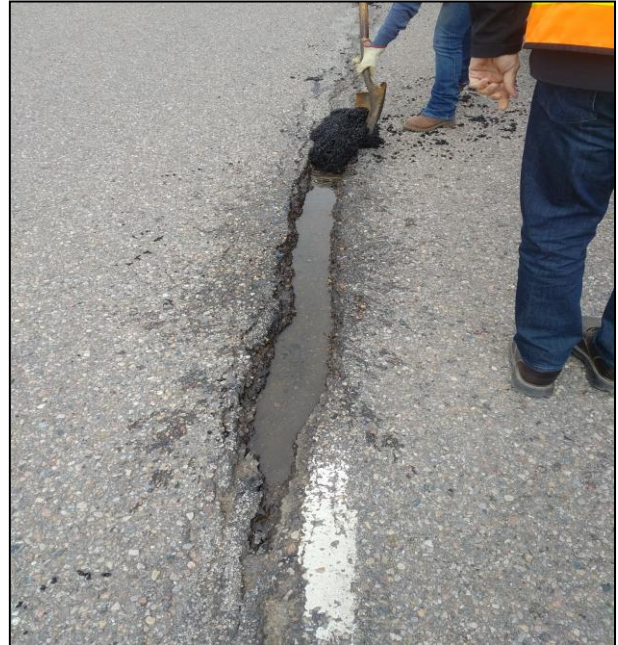


**Address:** Hwy #16 WB West of Regional Rd 150 on bend

**Construction Material:**

Unique Paving Materials (UPM) Permanent Asphalt Repair Cold Mix from strataWORKS Canada

- The cold mix material was installed in much larger centre line cracks (pic 1)
- In this trial, water was added to the largest crack, representing the issue of water present during pothole season (pic 2) before the crack was filled entirely with the cold mix (pic 3), compacted by the 5 ton truck tires (pic 4)



# Alberta Transportation Product List Trial Asphalt Pavement Patching - Proprietary Vegreville, AB



## 1<sup>st</sup> Inspection

**Date:** Aug. 22, 2017

**Product ID:** 8020-19

**Trial Timeline:** 1 year

**Address:** Hwy #16 WB @ Regional Rd 150

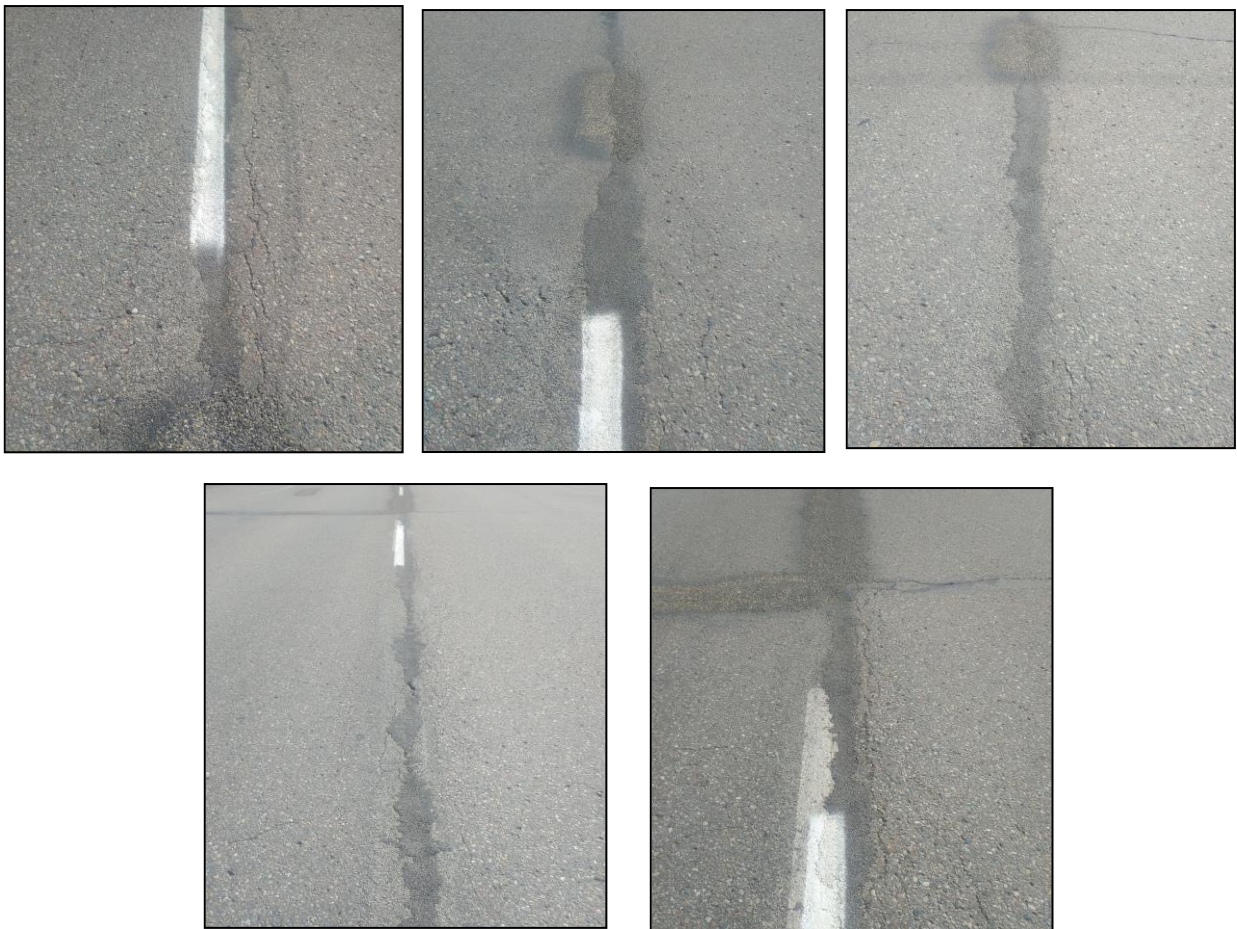
**Inspection Attendees:**

- Jim Mears – Carillion
- Derek Geisel – strataWORKS Canada Ltd

**Weather:** 24 degrees, sunny

**Notes:**

The product is in very good condition. It has hardened up nicely and is holding strong in the center joints where it was installed. There has been spray patch applied around the installs so the Unique Paving Materials Permanent Asphalt repair cold mix can be easily identifiable.



# Alberta Transportation Product List Trial Asphalt Pavement Patching - Proprietary Vegreville, AB



**Address:** Hwy #16 WB West of Regional Rd 150 on bend

**Notes:**

The product in this install is in very good condition. The top picture shows the center line crack where water was installed prior to the cold mix being installed. As discussed at the time, the product is not affected by water being in the hole and will bond properly to the existing asphalt. The product has hardened up nicely and is continuing to perform very well.



# Alberta Transportation Product List Trial Asphalt Pavement Patching - Proprietary Vegreville, AB



## 2<sup>nd</sup> Inspection

**Date:** Nov. 7, 2017

**Product ID:** 8020-19

**Trial Timeline:** 1 year

**Address:** Hwy #16 WB @ Regional Rd 150

**Inspection Attendees:**

- Jim Mears – Carillion
- Derek Geisel – strataWORKS Canada Ltd

**Weather:** 6 degrees, overcast and blowing

**Notes:**

The product remains very good condition. There are some minor cracks showing in the center line from the existing asphalt movement during the fall freeze thaw cycles but the product has not blown out, staying in place as installed. Jim Mears from Carillion Canada has been very impressed with the product.



# Alberta Transportation Product List Trial Asphalt Pavement Patching - Proprietary Vegreville, AB



**Address:** Hwy #16 WB West of Regional Rd 150 on bend

**Notes:**

The product remains in the road way and in very good condition. The top picture shows the center line crack where water was installed prior to the cold mix being installed. There are some small depressions where the water has sit and frozen over. The product remains in the road and can easily be fixed at any time by cleaning the ice off and adding a little UPM cold patch to these areas. The bottom photo shows where Carillion had spray patched up to the cold mix repair but the cold mix remains unchanged, even in the area where it was installed over the failed spray patch from a previous application.



# Alberta Transportation Product List Trial Asphalt Pavement Patching - Proprietary Vegreville, AB



## 3<sup>rd</sup> Inspection

**Date:** Mar. 5, 2018

**Product ID:** 8020-19

**Trial Timeline:** 1 year

**Address:** Hwy #16 WB @ Regional Rd 150

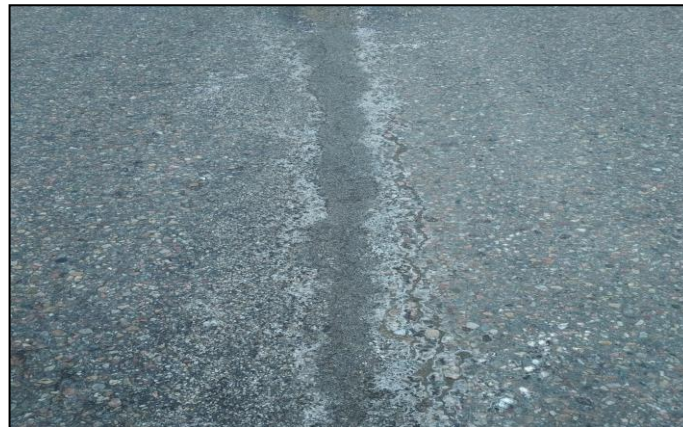
**Inspection Attendees:**

- Jim Mears – Carillion
- Derek Geisel – strataWORKS Canada Ltd

**Weather:** -16 degrees, overcast

**Notes:**

There are visible cracks directly through the installed material caused by the repeated freeze thaw cycles occurring this winter. The product however remains bonded to the existing asphalt and has not blown out.



# Alberta Transportation Product List Trial Asphalt Pavement Patching - Proprietary Vegreville, AB



**Address:** Hwy #16 WB West of Regional Rd 150 on bend

**Notes:**

Similar to the installation above, the product has visible cracks running through it due to the freeze thaw cycles occurring but the product remains bonded to the existing asphalt. No blow outs or loss of product have occurred.





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## Final Inspection

**Date:** June 20, 2018

**Product ID:** 8020-19

**Trial Timeline:** 1 year

**Address:** Hwy #16 WB @ Regional Rd 150

### Inspected by:

- Jim Mears – Carillion Canada
- Tom Somerville – Alberta Transportation
- Gary Faas – Alberta Transportation
- Vince Vandale – Alberta Transportation
- Derek Geisel, strataWORKS

### Notes:

After 13 months of infield installation, the UPM product continues to be robust. It has remained in the hole with no material blowing out and it continues to stay firmly bonded to the existing asphalt. A few cracks have appeared through the material, because of movement in the road itself, but cold mix performance has not been affected by this movement.



# Alberta Transportation Product List Trial Asphalt Pavement Patching - Proprietary Vegreville, AB



**Address:** Hwy #16 WB West of Regional Rd 150 on Bend

**Notes:**

As in the report above, the UPM product remains resilient and hard wearing after 13 months of testing. There are visual cracks running the length of the repair, but there is no sign of material blowing out. The product continues to stay bonded to the existing asphalt.

The photo in the bottom right corner shows the product in the hole that was filled with water during the initial installation. Note the product is performing very well, showing no signs of failure.



# Alberta Transportation Product List Trial Asphalt Pavement Patching - Proprietary Vegreville, AB



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This is the final inspection of the yearlong product trial of Unique Paving Materials (UPM) Permanent Asphalt Repair Cold Mix.

The 4 site visits and photos attached to this report confirm the UPM cold mix material is a permanent asphalt fix for damaged roads that outperforms typical cold mix products, remaining in place long after the other cold mix products would have failed.

strataWORKS Canada Ltd would like to thank Carillion Canada for actively participating in this field trial. We also want to thank Alberta Transportation for conducting a proper, clinically based product evaluation and appreciate how their support made this trial run smoothly.

We are very confident the UPM product performance is unmatched in the marketplace and look forward to receiving product approval after the Committee's next meeting.

Regards,

Derek Geisel  
President  
strataWORKS Canada Ltd