

Full Depth Reclamation Project, Saskatoon

How the City of Saskatoon Used FDR to Repair Two Roads

OVERVIEW

Location	Industrial roads near Saskatoon International Airport, Canada
Husky's role	Created a customized engineered emulsion mix– Saskatchewan Ministry of Highways and Infrastructure (Sask MHI)
Customer	City of Saskatoon
Partners	Ingevity, Northern Blacktop
Construction completion	September, 2018

CHALLENGE

Two roads in the industrial area of Saskatoon were in need of repair. One had sunk, creating a trough in the centre section. Plus, there were asphalt breakouts and fatigue cracking. The other road also had fatigue cracking, and asphalt blowouts.

When approached for a road repair solution by the City of Saskatoon, Northern Blacktop suggested Full Depth Reclamation (FDR), a process that rebuilds damaged asphalt by recycling the existing pavement into a strong and durable base.

INNOVATION

FDR is not a new technology, and there are options for the materials to use in the process. Husky Asphalt recommended an engineered emulsion for this project after working extensively with the project stakeholders to determine the best technology for the job.

In a collaborative effort, Ingevity & Husky Asphalt specially formulated a cationic slow-setting emulsion product for this road repair project.

The Husky Asphalt sales team and Technical Services & Innovation group were involved in the FDR project from start to finish:

- On-site assessment of the paving requirements
- In-depth consultations with customer and project partners to confirm FDR as the appropriate paving method
- Participation in creating the mix design
- Rigorous quality-control lab testing to ensure the emulsion's properties matched the mix design
- On-site technical support throughout the live FDR paving project

IMPACT

FDR is a cost-effective method to recreate a strong, durable base and extend the life cycle of your pavement.

By grinding the existing pavement into the base, sometimes twice, then adding the engineered emulsion and some gravel into the base to stabilize it before paving, the benefits of FDR are obvious:

- Creates a very flexible, fatigue-resistant base material that avoids cracking and other structural damage
- Reduces material costs by recycling existing material
- Reduces freight costs because there is no hauling required of new or old materials
- Provides a pavement life-cycle of 15-20+ years, as long as the surface is maintained

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