



Pavement Preservation at SDDOT

SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION

Phillip C. Clements, PE
Pavement Management Engineer, SDDOT

Overview

- **AC Treatments**
- **PCC Treatments**
- **Budget overview**
- **Questions and discussion**

AC Treatments

- **Treatment: Chip Seal**
- **When applied: Age 3 and age 10 (strict schedule)**
- **Where applied: AC Mainline and shoulders**
- **How triggered: Age**
- **Future: Mitchell Region – apply at age 1 instead of 3**

AC Treatments

- **Treatment: Rout and Seal**
- **When applied: Age 2 (if cracking develops)/as needed**
- **Where applied: AC Mainline and shoulders**
- **How triggered: Age and as requested**

AC Treatments

- **Treatment: Microsurfacing**
- **When applied: As needed/mainly rutting**
- **Where applied: AC Mainline**
- **How triggered: Using rutting and age or as requested**

AC Treatments

Programmed Mileage and Costs

Treatment	2023*	2024	2025
Chip Seal	1007 mi/44.7Mil**	1147 mi/41.9Mil	764 mi/30.2Mil
Rout and Seal	404 mi/2.2Mil	517 mi/4.5Mil	362 mi/3.1Mil
Microsurfacing	64 mi/6.0Mil**	0 mi/0Mil	0 mi/0Mil
Crack Leveling	75 mi/1.9Mil	11 mi/0.4Mil	9.2 mi/0.3Mil
Total	1550 mi/54.8Mil	1675 mi/46.8Mil	1135 mi/33.6Mil

*As bid

**May have been combined with other treatments for bid letting purposes

PCC Treatments

- **Treatment: Pavement Restoration**
 - **Joint and Spall repair/limited slab repair**
- **When applied: As needed for Joint Spalling and Corner cracks**
- **Where applied: PCC Mainline**
- **How triggered: Joint Spall and Corner Crack**
- **Varying levels – dependent upon % full depth repair**

PCC Treatments

- **Treatment: PCC Grinding**
- **When applied: As needed for Faulting, Warping or Curling**
- **Where applied: PCC Mainline**
- **How triggered: by condition**
- **For warping and curling: Triggered by inspection**

PCC Treatments

Programmed Mileage and Costs

Treatment	2023*	2024	2025
Pavement Rest.	21 mi/2.5Mil	79 mi/23.5Mil	70 mi/23.1Mil
PCC Grinding	27.5 mi/9.5Mil**	0 mi/0Mil	19 mi/3.2Mil
Total	49 mi/12Mil	79 mi/23.5Mil	89 mi/26.3Mil

*As bid

**May have been combined with other treatments for bid letting purposes

All Treatments

Programmed Mileage and Costs

Treatment	2023*	2024	2025
Total	1599 mi/66.8Mil	1754 mi/70.3Mil	1225 mi/60.0Mil

*As bid

Summary Statistics

Pavement Type	Two-Way Miles	% of System
PCC	1865	21%
AC	6901	78%
Other	77	1%
Total	8843	100%

Questions?

<https://dot.sd.gov/projects-studies/planning/pavement-management>