

MAINTENANCE PLANNING GUIDELINES

01/2014

ACTIVITY: Seal Coat (R31C)
MINOR (Only)

ACTION: Seal Coat
A. Course Aggregate (LM)

DEFINITION: The time and expenses incurred for spot or continuous seals using either hand or bar application of bituminous material and covering with aggregate material either by hand, tailgate or spreader. This includes course aggregate seal coats & fine aggregate seal coats.

PURPOSE: To seal out surface moisture on cracked or deteriorating asphaltic surfaces, extend pavement life, and improve skid resistance.

SCHEDULING: As needed during warm weather with the bulk prior to October 15.

J	F	M	A	M	J	J	A	S	O	N	D
A	E	A	P	A	U	U	U	E	C	O	E
N	B	R	R	Y	N	L	G	P	T	V	C

RECOMMENDED EQUIPMENT:

- Asphalt Distributor
- Dump Trucks w/Spreaders or Chip Spreaders
- Pneumatic Roller(s)
- Broom/Sweeper
- Traffic Control Equipment;
[\(See EPG 616.23 Traffic Control for Field Operations\)](#)

RECOMMENDED PROCEDURE:

1. Consult with Materials Office and vendor for design and application rates.
2. Contact Dig Rite and others to mark utilities.
3. Place traffic control devices as required. Review guidance for use of “Fresh Oil” and “Loose Gravel” signs [EPG 616.23.2.7.6](#) and “No Center Line” signs and pavement marking, [EPG 616.23.2.5.7](#).
4. Sweep the existing surface to clean and remove loose debris.
5. Set temporary pavement marking.
6. Check application rate for distribution of aggregate and binder depending on field specific conditions. Adjust as necessary for each job.
7. Roll with rubber tire roller.
8. Excess aggregate should be swept off and removed when surface is cured.
9. Remove traffic control devices.

RECOMMENDED MATERIAL:

- Liquid Binder – Sealing Grades
Check with Materials Office for proper selection of aggregate. (1/2-in.- 3/16-in.)
Aggregate size.

SAFETY: Care should be taken to reduce the amount of loose aggregate. Motorists should be warned to drive slowly and watch for fresh asphalt and moving equipment. Refer to the [Comprehensive Safety Program sharepoint portal](#). Wear all appropriate PPE. Refer to the [Risk Based Assessment](#) for additional information.

OTHER CONSIDERATIONS: May substitute lightweight aggregate to minimize vehicle damage claims. Use a pneumatic roller to improve rock retention by asphalt. It is advisable to hold a traffic control planning session prior to projects.

REFERENCES: [Missouri Standard Specifications for Highway Construction](#) Sections 409, 1003, 1015. Also see [EPG 409 Seal Coat](#).