

MAINTENANCE PLANNING GUIDELINES

2006

ACTIVITY: Chip Sealing (R31C)
MINOR (Only)

ACTION: Chip Sealing
B. Fine 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 chip seals & fine aggregate chip seals.

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

SCHEDULING: When temperatures are 65°F and rising.

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:**
- Truck Distributor
 - Chip Spreader
 - Optional Brooms
 - Rubber Tire Roller
 - Trucks
 - Optional Pilot Truck
 - Traffic Control Equipment; reference the [Traffic Control for Field Operations Manual](#)

- RECOMMENDED MATERIAL:**
- Liquid Binder – Sealing Grades
Check with Materials Office for proper selection of aggregate.
(³/₁₆-in. or less) Aggregate Size.
 - Sand – Other Blot Material

- RECOMMENDED PROCEDURE:**
1. Place traffic control devices as needed.
 2. Sweep the existing surface to clean and remove loose debris.
 3. Set temporary pavement marking.
 4. Apply asphalt at recommended rate and broom as necessary.
 5. Cover asphalt with blotting material.
 6. Broom blotting material.
 7. Roll with rubber tire roller.
 8. Remove traffic control devices, except “Fresh Oil” and “No Center Stripe” signs, and open to traffic.
 9. “Fresh Oil” and “Loose Gravel” signs should remain in place until surface is cured and loose aggregate has been thoroughly swept off.

SAFETY: Wear all appropriate PPE. Refer to [Safety Policies, Rules & Regulations-Employee Handbook](#))

OTHER CONSIDERATIONS: Clean up excess material with power broom.

REFERENCES: Missouri Standard Specifications for Highway Construction; Section [413.20, 1015](#)

R31C Chip Seals – Fine Aggregate



(1) Cinder Seal Operation



(2) Dump Truck unloading Cinders into Chipper



(3) Dump Truck unloading Cinders into Chipper



(4) Chipper applying Cinders to Road Bed



(5) Rubber Tired Roller



(6) Cinder Seal Operation