

ITEM 618.9901 02 - RECYCLING AGENT FOR HEATER SCARIFICATION AND HOT IN-PLACE RECYCLING

DESCRIPTION

This work shall consist of using a recycling agent as a rejuvenator for a heater scarification or hot in-place recycled project. The recycling agent shall meet the requirements detailed in this specification. This material will improve the penetration value of the recycled hot mix asphalt which will increase the overall life of the existing pavement.

MATERIALS

Use ASTM D 4552, Standard Practice for Classifying Hot-Mix Recycling Agents, grades RA25 or ERA25 (an emulsified RA25) petroleum-based recycling agents specifically designed as a rejuvenator meeting the requirements outlined in Table 1 – Recycling Agent. At the start of production and during, supply certified test results and documented quantities to the Engineer for each shipment of recycling agent. Acceptance of this material is based on a signed Manufacturer’s Certification stating conformance to this specification. The use of any other grade of recycling agent requires prior approval from the Director, Materials Bureau. A 2-week notice is needed for this approval.

Table 1 – Recycling Agent

Test Requirements	Test Method	Minimum	Maximum
Tests on Residue from Distillation			
Viscosity, 60°C, cSt	T 201	901	4500
Flash Point, CSC, °C	T 48	215	-
Test on Residue from RTFO, 163°C:			
Viscosity Ratio	T 240	-	3
Weight Change, ±, %		-	4
Specific Gravity	T 228	Report	
Saybolt Furol Viscosity @ 25°C, s		15	85
Storage Stability, 24 hrs, %		-	1.0
Sieve, %	T 59 ⁽¹⁾	-	0.1
Cement Mixing, %		-	2.0
Asphalt Content by Evaporation, %		65.0	

1. This testing requirement is only for ERA25.

CONSTRUCTION DETAILS

The provisions details in the special specification for heater scarification or hot in-place recycling of Hot Mix Asphalt (HMA) pavements, shall apply. These specifications are under separate items.

METHOD OF MEASUREMENT

The quantity to be measured for payment will include the number of liters incorporated in the work, measured at a temperature of 16°C, as detailed in this specification.

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BASIS OF PAYMENT

The unit price bid per liter of recycling agent shall include the cost of all labor, material, and equipment necessary to complete the work satisfactorily.

Payment will be made under:

Item No.	Item	Pay Unit
618.9901 02	Recycling Agent for Heater Scarification and Hot In-Place Recycling	Liter

DISAPPROVED BY EI 11-020