

1205 - ASPHALT REJUVENATING AGENT

SECTION 1205

ASPHALT REJUVENATING AGENT

1205.1 DESCRIPTION

This specification covers materials to be used as an emulsified polymer-modified asphalt rejuvenating agents for the use in hot in-place recycling of asphalt pavements.

1205.2 REQUIREMENTS

Provide material that has a record of satisfactory performance based on the capability of the material to increase the ductility and lower the viscosity of the asphalt binder in the pavement surface. Provide an asphalt rejuvenating agent composed of a polymer-modified asphalt emulsion. Modify the asphalt base stock with a minimum of 3.0% styrene-butadiene solution polymer. Blend the polymer modified base stock with process oils or other additives before emulsification to achieve the desired finished product properties. The material must comply with the following physical and chemical requirements in **TABLE 1205-1**:

TABLE 1205-1: ASPHALT REJUVENATING AGENT	
Property	Requirement
Viscosity, Saybolt-Furol at 25°C, sec	15 – 100
Residue, % min. ¹	60
Sieve Test, % max.	0.10
Oil Distillate, % max.	2
Storage Stability, 24 hrs., % max.	1
Tests on Residue from Distillation:	
Asphaltenes, % max.	25
Penetration @ 4°C, 100g, 5 sec.	50 – 150
Elastic Recovery, AASHTO T 301, 4°C, 20 cm elongation, % min. Run on Distillation Residue	60

¹ Use modified AASHTO T 59 procedure – distillation temperature of 350°F with a 20 minute hold.

1205.3 TEST METHODS

Test in accordance with the applicable provisions of AASHTO T 59, ASTM D 4402 and KT-MR20, “Chemical Analysis of Asphalt Rejuvenating Agents”.

1205.4 PREQUALIFICATION

Prequalify material under this specification according to **SECTION 1201**.

1205.5 BASIS OF ACCEPTANCE

See applicable requirements under **SECTION 1201**.