

SECTION 816 POLYMER MODIFIED BITUMINOUS COLD-PATCH MATERIAL

816.01 Description. The polymer modified bituminous cold-patch material shall be a uniform mixture of compatible mineral aggregate and a polymer modified cutback asphalt. The aggregate shall be uniformly coated with no stripping of the bituminous material from the aggregate. The mixture shall be capable of being stored in a stockpile for a period of at least six months without hardening or stripping and shall remain workable during all expected weather conditions during this storage.

816.02 Submission and Approval. Written documentation of current approval by the supplier of the bituminous material of the mix design and the proposed mixing facility must be submitted to and approved by the DepartmentNs Materials and Research Section prior to production.

816.03 Material Requirements. The aggregate shall be clean, crushed limestone or stone of equal quality, free from any foreign or deleterious material.

The polymer portion of the polymer modified cutback asphalt shall be blended with a cutback asphalt. The formulation shall be at the discretion of the manufacturer. The polymer modified cutback asphalt shall be piped directly from the transporting tanker into the mixing plant without an intermediary holding tank.

816.04 Job Mix Formula. It is the responsibility of the producer to submit a written proposal indicating the single definite percentage of each sieve fraction of aggregate and percentage of asphalt residue. Expected temperature ranges for component materials and the completed mixture shall also be provided with the submission.

The polymer modified cutback asphalt shall be added at a rate of 5.25 to 6.25% by weight, with an allowable production tolerance of "0.4% based on the total weight of the mix.

816.05 Mixing Requirements. The mixing facility must be a batch type mixer. Any type other than a batch type mixer will be approved for use only after careful evaluation of its mixing capabilities. All aggregate must be free of excess surface moisture prior to mixing. If some drying is required, heating must not exceed 150 °F (66 °C). Mixing shall be continuous until all aggregates are thoroughly coated with the bituminous material. After mixing, the material shall be stockpiled for a minimum of 48 hours in order to allow curing to occur. During this period of time, the stockpile will be examined for runoff and workability.

816.06 Performance Requirements. Samples of the component materials and the produced mixture will be obtained by the DepartmentNs Materials and Research Section in order to test their qualities. Acceptance of the materials and the produced mixture will be based on, but not necessarily totally on, the following described tests and considerations:

Coating Test

Extraction Analysis

Boiling Strip Test

The initial approval of the material sources, mix design, plant facilities, or mixture based on the above tests shall in no way preclude further examination and testing if unsatisfactory results or performance are encountered. The acceptance at any time shall not bar future rejection. Performance will be judged at the time of materials use.