

§ 278.2

(h) *Granular road base*—road base typically constructed by spreading aggregates in thin layers of 150 mm (6 inches) to 200 mm (8 inches) and compacting each layer by rolling over it with heavy compaction equipment. The aggregate base layers serve a variety of purposes, including reducing the stress applied to the sub grade layer and providing drainage for the pavement structure. The granular sub base forms the lowest (bottom) layer of the pavement structure and acts as the principal foundation for the subsequent road profile.

(i) *Hot Mix Asphalt*—a hot mixture of asphalt binder and size-graded aggregate, which can be compacted into a uniform dense mass. Hot mix asphalt also includes hot mix asphalt sub bases and hot mix asphalt bases.

(j) *Microsurfacing*—polymer-modified slurry seal.

(k) *Portland cement concrete (PCC)*—pavements consisting of a PCC slab that is usually supported by a granular (made of compacted aggregate) base or sub base.

(l) *Pozzolanic*—a siliceous material which when combined with calcium hydroxide in the presence of moisture exhibits cementitious properties.

(m) *Slurry seal*—refers to a material composed of emulsified asphalt, aggregate, and mineral fillers, such as Portland cement or lime which is applied as a thin coating on top of asphalt concrete or Portland cement concrete road surfaces.

(n) *Stabilized base*—a non-asphaltic road base composed of aggregate mixed with a pozzolanic material which increases the bearing strength of the material.

(o) *Transportation construction projects*—these activities relate to the construction of roads and highways and include bases, sub bases, road surfaces, bridges, abutments, shoulders, and embankments. They are not related to any residential use.

(p) *Tri-State Mining District*—the lead-zinc mining areas of Ottawa County, Oklahoma, Cherokee County of southeast Kansas and Jasper, Newton, Lawrence, and Barry Counties of southwest Missouri.

(q) *Warm mix asphalt*—refers to a mixture of an asphalt binder with aggregate,

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paraffin or esterified wax, and mineral additives that allow its use at temperatures much lower than hot mix asphalt.

§ 278.2 Applicability.

These requirements apply to chat from the Tri-State Mining District used in transportation construction projects carried out, in whole or in part, using Federal funds.

§ 278.3 Criteria for use of chat in Federally funded transportation projects.

Chat can be used in transportation construction projects carried out, in whole or in part, using Federal funds:

(a) The chat is used in hot, warm or cold mix asphalt, in slurry seal, microsurfacing, or in epoxy seal; or

(b) The chat is used in Portland cement concrete, granular road base, flowable fill, stabilized road base or chip seal if, on a case by case basis either:

(1) Synthetic Precipitation Leaching Procedure (SPLP) tests are conducted on the proposed material using EPA SW-846 Method 1312, incorporated by reference in § 260.11 of this chapter, and the leachate testing results show that concentrations in the leachate do not exceed the National Primary Drinking Water Standards for lead and cadmium and the fresh water chronic National Recommended Water Quality Criterion for zinc of 120 µg/l; or

(2) EPA (or a State environmental Agency, if it chooses to do so) has determined, based on a site-specific risk assessment and after notice and opportunity for public comment, that the releases from the chat mixture in its proposed use will not cause an exceedance of the National Primary Drinking Water Standards for lead and cadmium in potential drinking water sources and the fresh water chronic National Recommended Water Quality Criterion for zinc of 120 µg/l in surface water; or

(c) The use of chat has been authorized pursuant to a State or Federal response action.

§ 278.4 Certification and record-keeping requirements.

(a) *Certification*. For chat used under the jurisdiction of the U.S. Department