



South Carolina  
Department of Transportation

February 25, 1999

**INSTRUCTIONAL BULLETIN NO. 99-6**

**SUBJECT:** Guidelines for Hot Mix Asphalt Selection

**EFFECTIVE DATE:** February 24, 1999

**SUPERSEDES:** Instructional Bulletin No. 97-3

**RE:** None

**Superseded  
by 1999-8**

Attached is the revised table, "Guidelines for Hot Mix Asphalt Selections", dated February 22, 1999 to be used for the selection of hot asphalt mixes for all future projects beginning with the April highway letting.

Approved: \_\_\_\_\_

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# GUIDELINES FOR HOT MIX ASPHALT SELECTION

TYPE COURSE	TYPE FACILITY						
	INTERSTATE	HEAVY DUTY PRIMARY (INCLUDES ALL NHS ROUTES)	INTERSECTIONS & PROBLEM AREAS	PRIMARY & HIGH VOLUME SECONDARY	LOW VOLUME SECONDARY ROUTES 1500 VPD OR LESS		
SURFACE	SUPERPAVE 1/2" MAX. (12.5 mm) MIN. RATE 175#/SY (95 kg/m <sup>2</sup> )	TYPE-1 C  MIN. RATE 175#/SY (95 kg/m <sup>2</sup> )	TYPE-1 B  MIN. RATE 200#/SY (109 kg/m <sup>2</sup> )	TYPE-1  MIN. RATE 150#/SY (80 kg/m <sup>2</sup> )	TYPE-3  MIN. RATE 150#/SY (80 kg/m <sup>2</sup> )	TYPE-4  MIN. RATE 125#/SY (68 kg/m <sup>2</sup> )	TYPE-5  MIN. RATE 125#/SY (68 kg/m <sup>2</sup> )
	FINE & COURSE: CRUSHED AGGR. REQUIRED	FINE & COURSE: CRUSHED AGGR. REQUIRED	FINE & COURSE: CRUSHED AGGR. REQUIRED	FINE & COURSE: CRUSHED AGGR. REQUIRED	UNCRUSHED GRAVEL AND LOCAL SAND PERMITTED	UNCRUSHED GRAVEL AND LOCAL SAND PERMITTED	UNCRUSHED GRAVEL AND LOCAL SAND PERMITTED
LIQUID ASPHALT BINDER	4.8%	5.0%	5.1%	6.0%	6.0%	6.4%	6.4%
INTERMEDIATE	SUPERPAVE 3/4" MAX. (19 mm)	BINDER TYPE-1		BINDER TYPE-2			
	FINE & COURSE: CRUSHED AGGR. REQUIRED	FINE AND COURSE: CRUSHED AGGREGATE REQUIRED		UNCRUSHED GRAVEL AND LOCAL SAND PERMITTED			
LIQUID ASPHALT BINDER	4.0%	5.1%		5.1%			
ASPHALT AGGREGATE BASE	ASPHALT AGGREGATE BASE CR. TYPE-1			ASPHALT AGGREGATE BASE CR. TYPE-2			
	FINE AND COURSE: CRUSHED AGGREGATE REQUIRED			UNCRUSHED GRAVEL AND LOCAL SAND PERMITTED			
LIQUID ASPHALT BINDER	4.9%			4.9%			
LEVELING AND BUILD-UP	SURFACE SUPERPAVE OR TYPE-1 OR TYPE-1C BINDER TYPE-1 ASPH. AGGR. BASE COURSE TYPE-1 REQUIRED			SURFACE TYPE-1, TYPE-3, TYPE-4 OR TYPE-5 BINDER TYPE-2 ASPH. AGGR. BASE COURSE TYPE-2 PERMITTED			
ANTI-STRIP	ADD HYDRATED LIME REQUIRED			ADD HYDRATED LIME REQUIRED - EXCEPT AS NOTED BELOW			

**NOTES:**

1. NO RECYCLED ASPHALT PAVEMENT (RAP) ALLOWED IN SUPERPAVE, TYPE-1B OR TYPE-1C MIX.
2. LIQUID ASPHALT BINDER IS THE PERCENTAGE USED FOR QUANTITY CALCULATIONS FOR LIQUID ASPHALT BINDER IN PAVING MIXTURES.
3. LOCAL SAND WOULD BE PERMITTED IN SAND ASPHALT BASE COURSE.
4. HYDRATED LIME REQUIRED IN ALL MIXES EXCEPT SURFACE COURSE TYPE-4 AND TYPE-5.  
SURFACE COURSE TYPE-4 AND TYPE-5 WOULD ALLOW A LIQUID ANTI-STRIP ADDITIVE, EXCEPT WHERE USED FOR LEVELING AND BUILD-UP.
5. CRUSHED AGGREGATE IS DEFINED AS AN AGGREGATE HAVING TWO OR MORE FRESHLY MECHANICALLY INDUCED FRACTURED FACES ON AT LEAST 70% BASED ON COUNT, OF THE MATERIAL RETAINED ON THE NO. 4 SIEVE.