



GREENPATCH

Specifications for Cold Mix Asphalt

The patching material shall be composed of a suitable aggregate, plant-mixed with GreenPatch®. The bituminous material shall be available in various grades so that one such grade will enable a stockpile to remain pliable and workable at a temperature of -15 degrees F. The patching material shall be capable of maintaining adhesive qualities in patched areas, which are damp at time of application, after remaining in an uncovered stockpile for 6 to 12 months. GreenPatch® will remain workable in a bag or pail for a period of 12 months.

<u>% Passing</u>	<u>Sieve Size (Metric)</u>
90-100	3/8 Inch (9.5-mm)
20 - 85	Number 4 (4.75-mm)
5 - 20	Number 8 (2.36-mm)
3 - 15	Number 16 (1.18-mm)
0 - 10	Number 50 (0.18-mm)
0 - 8	Number 100
0 - 5	Number 200

Materials

Preproduction Aggregate: Will consist of a crushed limestone or approved equal and RAP (fractionated recycled asphalt product)

ASTM C-88	Soundness Loss (Sodium-5 Cycles)	12.0% Maximum
ASTM C-131	Los Angeles Abrasion Loss:	40.0% Maximum
ASTM C-127,128	Absorption:	1.0%-2.5%
ASTM C-127,128	Specific Gravity	2.55-2.75
	Other Deleterious Matter	
ASTM C-123	Soft Pieces	3.0% Maximum
ASTM C-295	Coal and Lignite	1.0% Maximum
ASTM C-142	Shale, Chert, Shady Material, etc.	2.5% Maximum

Bituminous Material:

The bituminous material shall be GreenPatch Liquid. It shall meet the following requirements:

ASTM D-1310	Flash Point (Tag Open Cup)	250 F Minimum
ASTM D-2170	Kinematic Viscosity at 60 C (140° F)	100-150 cP
ASTM -D95	Water	0.2% Minimum
ASTM D-402	Distillate Test (Volume of Original Sample):	
	To 225 degrees C (437° F)	None
	To 260 degrees C (500° F)	None
	To 315 degrees C (600° F)	None
	Residue from distillate at 360° C (680° F)	95% Minimum
	Tests on Residue from Distillation:	
ASTM D-5	Penetration	200 Minimum
ASTM D-2042	Solubility in Trichloroethylene	99.0% Minimum

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Specifications for Cold Mix Asphalt

Composition of Mixture

The approved formula shall have an allowable variation of not more than the following minimum and maximum ranges:

Job Mix Formula	Minimum	Maximum
Liquid Content	2.5%	7.0%
Virgin Aggregate	30%	70%
Recycled Asphalt Product (FRAP)	20%	60%

*Recycled Product from Asphalt Millings

PREPARATION OF MIXTURE

It may be necessary to heat approved aggregates. When heat is applied, the mixture **SHOULD NOT EXCEED 220 DEGREES F.**

The GreenPatch Liquid shall be heated to a temperature between 100 and 170 degrees F in accordance with the instructions of the liquid Supplying Company representative.

The mixture shall be mixed until all of the aggregates are uniformly coated.

PLANTS AND EQUIPMENT

Storage facilities and all equipment used in the preparation of the mixture shall be approved by the appropriate local governing agency. An approved drier shall be available for surface drying the aggregate when needed. The materials for individual batches shall be measured accurately either by volume or by weight, by approved methods and equipment.

A batch plant or a continuous mixer of approved design and capacity shall be used in mixing the ingredient materials.

STRIPPING TEST

After material reaches ambient temperature, the mixture shall meet the requirements of ASSHTO T-182, whereby not more than 5% of the aggregate particles shall remain uncoated.

HANDLING PRECAUTIONS

During the production of GREENPATCH Cold Patch, and the production/handling of GREENPATCH liquid Asphalt Blend, normal industry-wide safety precautions such as prohibition of smoking, and any other source of ignition, spark, or open flame, shall be strictly enforced in the vicinity of such operations.

CONTACT

COLD MIX MANUFACTURING

For additional information:

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