

*Limestone
County Commission*

*Chairman
Collin Daly*

*Administrator
Pam Ball*



*Commissioners:
Daryl Sammet
Steve Turner
Jason Black
Ben Harrison*

February 21, 2019

**INVITATION FOR BIDS
PROPOSAL NO. 2683**

HIGH PERFORMANCE ASPHALT COLD PATCH MATERIAL

Notice is hereby given that the Commission of Limestone County, Alabama will receive competitive bids on the following item:

HIGH PERFORMANCE ASPHALT COLD PATCH MATERIAL. SEE ATTACHED SPECIFICATIONS.

This Bid will be effective April 1, 2019 until March 31, 2020.

BIDS: All applicable taxes must be included in the amount of unit bid price.

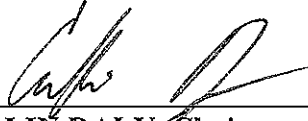
F.O.B.: **BID SHEET.** Date of Delivery: **AS REQUESTED.** Terms: **NET 30 DAYS.**

You are invited to bid on the attached specifications. Any substitutes offered must be submitted in detail. The right to reject any items or materials not of quality or under any provisions of this act is reserved.

Bids will be opened on **Tuesday, the 12th day of March 2019, at 10:00 a.m.** and awarded on **Monday, the 18th day of March 2019, at 10:00 a.m.**

REQUIREMENT: Pursuant to Alabama Code 31-13-9, as a condition of the award of any contract, the business entity or employer, and any of its subcontractors, shall provide a sworn affidavit and documentation that it will not knowingly employ, hire for employment, or continue to employ an unauthorized alien; that it is enrolled in the E-Verify program; and, during the contract period, it will participate in the E-Verify program and will verify every employee that is required to be verified under applicable state and federal laws. During the performance of the contract, the business entity or employer shall participate in the E-Verify program and shall verify every employee that is required to be verified according to the applicable federal rules and regulations.

All bids must be sealed, and the word "BID," name of item, proposal number, and opening date must be marked on the outside of the envelope.



**COLLIN DALY, Chairman
Limestone County Commission**

High Performance Asphalt Cold Patch Material

GENERAL:

These bituminous patching mixes are designed in various seasonal grades for use when the outside ambient temperature is in the range of -15 F (-26 C) to 100 F (38 C). Each grade shall be manufactured specifically to accommodate anticipated climatic conditions.

The bituminous patching mix shall consist of asphalt and aggregate within prescribed quantities to make a mixture, which will provide satisfactory coating, workability and adhesion characteristics. The patching mixture will be available in grades to function as a patch during cold and damp or during hot weather in bituminous and concrete pavement. The asphalt blend and aggregate shall conform to the following requirements.

LIQUID ASPHALT:

The bituminous material shall be prepared from a base stock of asphalt cement and blended to meet the following requirements:

Kinematic Viscosity @ 140 F (60 C)	ASTM D 2170	350 to 4000 cSt (mm ² /s)
Flash Point, Tag Open Cup	ASTM D 1310	200 F (93 C) minimum
Percentage of Water	ASTM D 95	Less Than 0.2%
Distillation to 680 F (360 C)	ASTM D 402	See Values Below

Temperature	Volume % Total Distillate		Volume % Original Sample	
	Minimum	Maximum	Minimum	Maximum
to 437 F (225 C)	0	0	0	0
to 500 F (260 C)	0	0.5	0	0
to 600/437 F (225 C)F	10	65	0	18
Residue from distillation to 680 F (360 C)% Volume by Difference			73	95

TESTS ON RESIDUE FROM DISTILLATION

Absolute viscosity @ 140 F (60 C)	ASTM D 2171	75 to 425 Poise (10 ⁻¹ Pa ^x s)
Penetration, Modified with Cone	ASTM D 5*	180 minimum
Ductility, 39 F (4 C) 1cc/minute	ASTM D 113	100 minimum
Solubility in Trichloroethylene	ASTM D 2042	99.0% minimum

*Make this test in accordance with ASTM Method D 5, except utilize a penetration cone in place of the standard penetration needle. The cone shall conform to the requirements given in ASTM Method D 217, except that the interior construction may be modified as one desires. The total moving weight of the cone and attachments must be 150 ± 0.1 grams. Also the level of water in the transfer dish shall be lowered to less than the height of the sample and decant water from the top of the sample before transferring from the bath to the penetrometer.

AGGREGATE:

The aggregate shall be crushed stone and shall meet the following requirements:

SIEVE ANALYSIS

ASTM C 136

Sieve	#9 ASTM D 448 Percent Passing	COMBINATION #9 & #89 Percent Passing	#89 ASTM D 448 Percent Passing
1/2" (12.5 mm)	-	100	100
3/8" (09.5 mm)	100	90 - 100	90 - 100
#4 (4.75 mm)	85 - 100	55 - 85	20 - 55
#8 (2.36 mm)	10 - 40	5 - 40	5 - 30
#16 (1.18 mm)	0 - 10	0 - 10	0 - 10
#50 (0.30 mm)	0 - 5	0 - 5	0 - 5

Soundless Loss (Sodium, 5 cycles)	ASTM C 88	12.0 maximum
Los Angeles Abrasion Loss	ASTM C 131	45.0% maximum
Specific Gravity	ASTM C 127	2.45-2.85
Absorption	& 128	3.0% maximum
Minus 200 Sieve (0.075 mm) Wash Loss	ASTM C 117	2.5% maximum

PREPARATION OF MIXTURE:

The producer will provide a paved stockpile pad or an established material base of the same product as bid in the specifications. The pad or material base shall be solely committed to this product during the contract period.

The asphalt shall be heated to a temperature between 185° - 265°F (85° - 130°C).

The mixture shall consist of an aggregate and asphalt combined in a pug mill in the following proportions:

Asphalt	5.0 to 6.5%
Aggregate	95.0 to 93.5%

The aggregate shall be surface dried by applying heat to the aggregate in order to reduce aggregate fines and facilitate uniform coating of the aggregate. The temperature of the bituminous mixture at the point of discharge from the mixer under any circumstance shall not exceed 175° F (80° C). The mixture shall be mixed in the plant until all of the aggregate is uniformly coated.

When producing in a batch plant, wet mix time in the pug mill should be typically in the range of 30 to 45 seconds or until the aggregate is uniformly coated (greater than 95%) as outlined in ASTM D 2489.

PRODUCTION SUPERVISOR

A technical representative from the manufacturer will be present at every production for quality assurance of the mix.

MIXTURE:

The asphalt cold mix shall meet the following requirements.

Coating	ASTM D 2489	Greater than 95%
Stripping in distilled water ¹	Visual	Less than 5%
Extraction of Bituminous Material	ASTM D 2172	3.5 min. 9.0% max.
Sieve Analysis of Extracted Aggregate	ASTM C 136	See Aggregate Specification
Minus 200 (0.075mm) of Extracted Aggregate	ASTM C 117 & 136	4.0% Maximum ²
Shelf Life of 100 Tons or more		One-Year Minimum

Note 1: Place approximately 100 grams in a 250 ml glass beaker and cover with distilled water for 24 hours before observation.

Note 2: This value shall not be confused with the 2.5% maximum allowed for the Minus 200 (0.075mm) Wash Loss on the raw aggregate before the production of the cold mix. That value is necessary to minimize the effect of the plant when producing the finished cold mix.

PERFORMANCE GUARANTEE:

The supplier of the material shall guarantee the performance of the mix to meet the following requirements.

- A. The material shall remain workable to accommodate climatic conditions, in an uncovered stockpile of 100 tons or more, if applicable, for a period of not less than 12 months. Smaller quantities must be reasonably covered.
- B. Repaired potholes shall not show any significant signs of shoving, rutting, tracking, kick-up or ravel-out within a period of 12 months from the time of repair.

In the event the material furnished does not meet all of the above requirements, the supplier shall replace the unsatisfactory with acceptable material. The acceptable material shall be provided and delivered at no extra charge to the Limestone County Commission.

AWARD OF BID:

If requested, the successful bidder will be required to furnish an affidavit that this product meets or exceeds the above specifications. The affidavit shall have attached an analysis done by an independent testing laboratory, certifying that the material conforms to these specifications. The material tested shall be obtained from a stockpile with a minimum quantity of 100 tons. If the successful bidder does not submit the affidavit of the lab analysis within 30 days of the award of this bid the County Commission may cancel the award of this bid.

**BID SHEET
HIGH PERFORMANCE ASPHALT
COLD PATCH MATERIAL**

HIGH PERFORMANCE ASPHALT COLD PATCH MATERIAL (bulk)

PRICE PER TON \$ _____ DELIVERED

PRICE PER TON \$ _____ PICKED-UP

Pick-Up Location _____

HIGH PERFORMANCE ASPHALT COLD PATCH MATERIAL (50lb bags)

PRICE PER 50lb BAG \$ _____ DELIVERED

PRICE PER 50lb BAG \$ _____ PICKED-UP

Pick-Up Location _____

HIGH PERFORMANCE ASPHALT COLD PATCH MATERIAL (5 gal. pails.)

PRICE PER 5 gal. PAILS \$ _____ DELIVERED

PRICE PER 5 gal. PAILS \$ _____ PICKED-UP

Pick-Up Location _____

Company Name: _____

Address: _____

Contact: _____

Please Print

Phone: _____

E-Mail: _____