



Georgetown County, South Carolina

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ADDENDUM #1 TO BID #19-105

BID NUMBER: 19-105

ISSUE DATE: January 8, 2020

BID OPENING DATE: Wednesday, February 5, 2020 OPENING TIME: 3:30 PM (ET)

Bid Opening Location: Georgetown County Courthouse, Suite #239, (Purchasing Conference Room)
 Deadline for Questions: Wednesday, January 22, 2020 @ 3:30pm

PROCUREMENT FOR: Emulsified Asphalt Paving Sealing Program IDQ

This addendum will amend **Bid #19-105, Emulsified Asphalt Paving Sealing Program IDQ**, originally issued on January 8, 2020. This clarification is being provided to all known and registered correspondents in response to questions received. All addenda and original bid documents are also available online at: www.gtcounty.org, select Quick Links, “Bid Opportunities” and “Current Bids.”

Questions:

1. There were many questions regarding a specific name brand sealing product and if it is acceptable. The County provided a specification for a thick aggregate blended, durable “High Performance Mineral and Fiber Reinforced Asphalt Emulsion” sealer. The County will consider your product as long as you can certify that it meets the specification provided. For comparative purposes, several commercially available products meet this specification such as GuardTop’s “*GuardTop Ultra*” and Sealmaster’s “*Liquid Road Ultra*.”

High Performance Mineral and Fiber Reinforced Asphalt Emulsion Properties		
ASTM	Test Description	Result
D5	Penetration of Bituminous Materials-Base Asphalt	12-45 Pen
D6937	Density of Emulsified Asphalt	1,000 -1300 g/l
D6930	Settlement and Storage Stability of Emulsified Asphalts	20% max./24 hr.
D113	Ductility of Bituminous Materials-Base Asphalt	5-15 cm
Std. %	Percent Polymer Solids to Asphalt by wt.	3% min.
E70	PH of Aqueous Solutions with Glass Electrodes	6-10 PH
D6378	Vapor Pressure (VPX), mm Hg @ 25° C (77° F)	22-26 mm Hg
D36	Softening Point of Emulsion Residue (Ring and Ball Apparatus)	> 200° F
D93	Flash Point of Liquid Emulsion	None detected
D562	Viscosity using a Stormer-Type Viscometer	60-110 KU
D4060	Abrasion Resistance- Taber Abraser Dry Method	< 1% Loss

D522	Mandrel Bend Test of Attached Coatings	No Cracking
D870	Water Resistance of Coatings using Water Immersion	No Delamination
D6904	Resistance to Wind-Driven Rain	No Delamination
D4585	Water Resistance of Coatings Using Controlled Condensation	No Delamination
D1735	Water Resistance of Coatings Using Water Fog Apparatus	No Delamination
D2247	Water Resistance of Coatings in 100% Relative Humidity	No Delamination
D4541	Adhesion Strength over Asphalt Pavement	> 200 PSI
D3910-6.4	Wet Track Abrasion Test	< 5 g/ft ² Loss
D2939-5	Uniformity of Emulsified Bituminous Coatings	PASS
D2939-7	Weight per Gallon	9-11 lbs./gal
D2939-8	Residue by Evaporation, %	40% min.
D2939-13	Drying Time- 50% humidity, 73.4 ± 3.6°F. Firm in 24 hrs.,	PASS
D2939-14	Resistance to Heat- No Blistering, sagging or slipping	PASS
D2939-15	Resistance to water- No softening, delamination or re-emulsification	PASS
D2939-16	Flexibility- No Cracking or Delamination	PASS
D2939-26	Resistance to Impact- No Chipping, Cracking or Delamination	PASS
D2939-27	Resistance to Impact After Accelerated Weathering	PASS
D2172	Asphalt Content by Weight, %	Min. 16%
D4799	QUV UV Aging-1,000 Hours	No Color Fade
D3359	Measuring Adhesion by Tape- No More than a Trace of Peeling	PASS
SCAQMD Method 304	Determination of Volatile Organic Compounds (VOC) in various Coatings	< 50 g/l

Aggregate mixed High Performance Mineral and Fiber Reinforced Asphalt Emulsion Properties (see Aggregate Specifications table below)

ASTM	Test Description	Result
D2939-8	Residue by Evaporation, %	Min. 52%
E303	Measuring Surface Frictional Properties- British Pendulum Tester	Min. 70 BPN
E274	Locked Wheel Skid Testing	> 30 SN
D4060	Abrasion Resistance- Taber Abraser Dry Method	< 1% Loss
D3910-6.4	Wet Track Abrasion Test	< 25g/ft ² Loss
D5	Penetration of Bituminous Materials-Base Asphalt	12-45 Pen
D113	Ductility of Bituminous Materials-Base Asphalt	5-15 cm
Std. %	Percent Polymer Solids to Asphalt by wt.	5-15 cm
E70	PH of Aqueous Solutions with Glass Electrodes	6-10 PH
D6378	Vapor Pressure (VPX), mm Hg @ 25° C (77° F)	22-26 mm Hg
D36	Softening Point of Emulsion Residue (Ring and Ball Apparatus)	> 200° F
D93	Flash Point of Liquid Emulsion	None detected
D562	Viscosity using a Stormer-Type Viscometer	60-110 KU
D870	Water Resistance of Coatings using Water Immersion	No Delamination
D6904	Resistance to Wind-Driven Rain	No Delamination
D4585	Water Resistance of Coatings Using Controlled Condensation	No Delamination
D1735	Water Resistance of Coatings Using Water Fog Apparatus	No Delamination
D2247	Water Resistance of Coatings in 100% Relative Humidity	No Delamination
D4541	Adhesion Strength over Asphalt Pavement	> 200 PSI
D2939-7	Weight per Gallon	10-12 lbs./gal
D2939-13	Drying Time- 50% humidity, 73.4 ± 3.6°F. Firm in 24 hrs.	PASS
D2939-14	Resistance to Heat- No Blistering, sagging or slipping	PASS
D2939-15	Resistance to water- No softening, delamination or re-emulsification	PASS
D2939-16	Flexibility- No Cracking or Delamination	PASS
D2939-26	Resistance to Impact- No Chipping, Cracking or Delamination	PASS
D2939-27	Resistance to Impact After Accelerated Weathering	PASS
D4799	QUV UV Aging-1,000 Hours	No Color Fade
D3359	Measuring Adhesion by Tape- No More than a Trace of Peeling	PASS
SCAQMD Method 304	Determination of Volatile Organic Compounds (VOC) in various Coatings	< 50 g/l

AGGREGATE SPECIFICATIONS FOR SEALER APPLICATION	
Mesh-Sieve Size (ASTM E11)	Typical Mean Retained On Individual Sieves %
No. 8 Mesh (2.38 mm)	-0-
No. 10 Mesh (2.00 mm)	0-5%
No. 12 Mesh (1.68 mm)	2-10%
No. 16 Mesh (1.19 mm)	30-60%
No. 20 Mesh (.841 mm)	20-50%
No. 30 Mesh (.595 mm)	2-10%
No. 40 Mesh (.420 mm)	1-5%
No. 50 Mesh (.297 mm)	1-5%
No. 70 Mesh (.210 mm)	1-5%
No. 100 Mesh (.149 mm)	0-5%
Sand or Aggregate shall have a typical AFS of 11-15 Mesh	

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ADDENDUM ACKNOWLEDGEMENT

Bid #19-077

Emulsified Asphalt Paving Sealing Program IDIQ **Mandatory Submittal Form**

To be returned with the final proposal submission to Georgetown County.

COMPANY NAME: _____

Addendum #1 Received Date: _____ Initialed By: _____

Addendum #2 Received Date: _____ Initialed By: _____

Addendum #3 Received Date: _____ Initialed By: _____

- Addendum #4 Received Date:_____ Initialed By:_____
- Addendum #5 Received Date:_____ Initialed By:_____
- Addendum #6 Received Date:_____ Initialed By:_____

If your Bid submission has already been mailed, acknowledgment may be provided by faxing this form to (843)545-3500, or attaching a digital scan and sending by e-mail.

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