



117 East Columbus Avenue
Suite 100 • Bellefontaine, Oh 43311
commissioners@logancountyohio.gov
(office) 937-599-7283 • (fax) 937-599-7268

Joe M. Antram • Mark A. Robinson • Michael E. Yoder

David Henry, County Administrator
david.henry@logancountyohio.gov
937-292-4008

DeDe Doss, Clerk Administrator
ddoss@logancountyohio.gov
937-599-7284

Jenny Richardson, Human Resources Director
jrichardson@logancountyohio.gov
937-599-7280

Resolution No. 23-23

The Logan County Board of Commissioners met in regular open session on this date of January 24, 2023 with the full board present.

Mr. Mark Robinson moved that the following resolution be adopted:

**RE: AWARD BID-2023 LIQUID BITUMINOUS MATERIAL AND ASPHALT MIX
LOGAN COUNTY ENGINEER**

WHEREAS, bids were received on January 19, 2023, for 2023 Liquid Bituminous Material and Asphalt Mix, and

WHEREAS, bids were received from Asphalt Materials low bidder for HFRS-2P, Fog Seal (QF-40 or Equal), and HPM Cold Mix. K-Tech Specialty Coatings not the low bidder on any single item and Shelly Materials is low bidder on 301, 448-T1 and 448-T2 Hot Mix, and


WHEREAS, all bids have been reviewed by the Logan County Engineer, Scott C. Coleman and he has made a recommendation to accept all bids, and


WHEREAS, the Logan County Engineer recommends authorizing Logan County Engineer to purchase from lowest bidder for each grade of the material, and to purchase product from an alternate bidder, if the low bidder is unable to supply Logan County Engineer with material on any given quantity, day, and time. This will allow Logan County Engineer flexibility, depending on material and aggregate to be used on various projects.

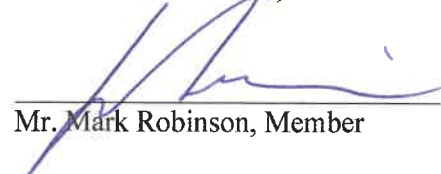
THEREFORE, BE IT HEREBY RESOLVED by the Logan County Board of Commissioners to authorize the Logan County Engineer to purchase from lowest bidder for each grade of the material, and to purchase product from an alternate bidder, if the low bidder is unable to supply Logan County Engineer with material on any given quantity, day, and time. This will allow Logan County Engineer flexibility, depending on material and aggregate to be used on various projects.

Mr. Michael E. Yoder seconded the motion.

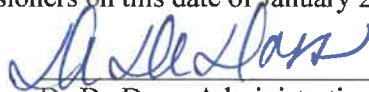
Roll call resulted as follows:


Mr. Joe Antram, President yes


Mr. Michael E. Yoder, Vice President yes


Mr. Mark Robinson, Member yes

I, De De Doss, Clerk/Administrator, hereby certify this to be a true copy of the proceedings as taken from the minutes of the meeting of the Logan County Commissioners on this date of January 24, 2023.



De De Doss, Administrative Clerk

OFFICE OF THE
LOGAN COUNTY ENGINEER
P.O. BOX 427
1991 COUNTY ROAD 13
BELLEFONTAINE, OH 43311
www.lceo.us

Received

JAN 20 2023

Logan County
Commissioners

SCOTT C. COLEMAN, P.E., P.S.
LOGAN COUNTY ENGINEER

Telephone: (937) 592-2791
Fax: (937) 599-2658

January 20, 2023

The Honorable Board of
Logan County Commissioners
117 E. Columbus Avenue, Suite 100
Bellefontaine, OH 43311

APPROVED BY THE BOARD OF
LOGAN COUNTY COMMISSIONERS

MOTION MR
2ND NY
PER RESOLUTION # 23-23
DATED 1/24/23

Re: **Liquid Bituminous and Asphalt Mix Bids
2023 Construction Season**

Gentlemen:

I have reviewed the bids received on January 19, 2023, for the above captioned materials shown on our bid specifications. Attached is a tabulation of the bids received by your honorable board. I offer the following comments concerning the bids:

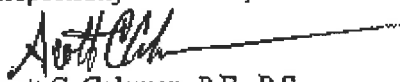
1. Asphalt Materials is low bidder for HFRS-2P, Fog Seal (QF-40 or Equal), and HPM Cold Mix.
2. K-Tech Specialty Coatings not the low bidder on any single item.
3. Shelly Materials is low bidder on 301, 448-T1 and 448-T2 Hot Mix.

In view of the above, I recommend that your honorable board accept all of the bids, authorizing us to buy from the lowest bidder for each grade of the material, and to purchase product from an alternate bidder, if the low bidder is unable to supply us with material on any given quantity, day, and time. This will allow us flexibility, depending on material and aggregate to be used on various projects.

These materials will be purchased from Auto and Gas Funds.

In accordance with ORC 9.24, we have checked the Auditor of State's Unresolved Findings for Recovery Database and the federal system for awards management. All companies that bid were not listed and we have retained the certified search confirmation page in the project file.

Respectfully submitted,


Scott C. Coleman, P.E., P.S.
Logan County Engineer

SCC/wtb
Attachment

2023 LIQUID BITUMINOUS AND HOT MIX ASPHALT BID TABULATIONS
(\$ / GALLON OR TON)

Material	Asphalt Materials	K-Tech Specialty Coatings	Shelly Materials
HFMS-2	2.32/GAL	2.55/GAL	NO BID
HFRS-2P	2.62/GAL (SBR)	2.75/GAL (SBS)	NO BID
Fog Seal (QF-40 or Equal)	1.62/GAL	2.05/GAL	NO BID
301	NO BID	NO BID	72.00/TON
448 - T2	NO BID	NO BID	75.00/TON
448 - T1	NO BID	NO BID	85.00/TON
HPM Cold Mix	115.00/TON	NO BID	NO BID

NOTICE FOR BIDS

Notice is hereby given that bids will be received at the office of the Logan County Commissioner's, 117 E. Columbus Avenue, Suite 100, Bellefontaine, Ohio 43311 until 10:00 A.M., Ohio Standard Time on Thursday January 19, 2023 for the **furnishing of various grades of LIQUID BITUMINOUS MATERIAL AND CONCRETE ASPHALT products** for the general construction and maintenance of Logan County Highways during the year of 2023 according to specifications on file in the Logan County Engineer's Office.

Bids are to be submitted on forms available at the Engineer's Office, 1991 C.R. 13, Bellefontaine, Ohio, 43311, 1-937-592-2791.

Bid prices are to be firm fixed price for one year.

Bids will be awarded to lowest and best bidder.

Bidders must comply with the provisions of The Americans with Disabilities Act of 1990.

Bidders must be able to provide a road-worthy Nurse Tank if needed.

The Logan County Commissioners' reserve the right to reject any or all bids and to waive any defects in the bids.

The Notice to Bidders is posted on the Internet and may be viewed on Logan County Engineer's web page at: www.lceo.us

By order of the Board of Commissioners of Logan County, Ohio.

DeDe Doss
Clerk/Admin.

Posted: January 5, 2023
Advertised: January 5, 2023 and January 12, 2023

OFFICE OF THE
LOGAN COUNTY ENGINEER
P.O. BOX 427
1991 COUNTY ROAD 13
BELLEFONTAINE, OH 43311
<http://lcco.us/>

SCOTT C. COLEMAN, P.E., P.S.
LOGAN COUNTY ENGINEER

Telephone: (937) 592-2791
Fax: (937) 599-2658

Addendum #2


For

2023 Logan County Liquid Bituminous Project

January 12, 2023

Letting: January 19, 2023 @ 10:00am

- Addendum #1 provided Bid Form has been modified with the removal of HFMF-2 product and the addition of HFMS-2 product. The revised Bid Form is included with this addendum.



W. Todd Bumgardner
Administrative Coordinator

**OFFICE OF THE
LOGAN COUNTY ENGINEER
P.O. BOX 427
1991 COUNTY ROAD 13
BELLEFONTAINE, OH 43311
<http://lceo.us/>**

**SCOTT C. COLEMAN, P.E., P.S.
LOGAN COUNTY ENGINEER**

**Telephone: (937) 592-2791
Fax: (937) 599-2658**

Addendum #1

For

2022 Logan County Liquid Bituminous Project

January 11, 2023

Letting: January 19, 2023 @ 10:00am

- The initially provided Bid Form has been modified with the removal of HMS-2 product and the addition of HFMF-2 product. The revised Bid Form is included with this addendum.



**W. Todd Bumgardner
Administrative Coordinator**

2023

LOGAN COUNTY, OHIO

LIQUID BITUMINOUS SPECIFICATIONS

HFRS-2P MATERIAL

The Logan County Engineer's Office plans to purchase approximately 270,000 gallons of high float rapid setting polymer modified anionic asphalt emulsion (HFRS-2P) for use in its 2023 chip seal program.

The bidder shall indicate on the bid form the type of polymer modifier (such as SBS, SBR) that is being bid. Failure to specify the modifier may result in the bid being rejected.

Enclosed is the required specification for the HFRS-2P.

The bidder shall provide a JMF of the emulsion considered for use when submitting the unit price bid form. HFRS-2P test results shall be submitted on individual batches being supplied to the county during delivery. The HFRS-2P test procedures shall follow the specified test listed on the following page. The HFRS-2P test results shall indicate that the emulsion supplied by your company achieves the project specifications.

At any time during production and delivery the County reserves the right to extract a random sample of emulsion being considered for use. Such sample will be submitted by the County to an independent laboratory for testing to confirm that the material sampled is in accordance with the project specifications.

FOG SEAL MATERIAL

The Logan County Engineer's Office plans to purchase approximately 35,000 gallons of quick breaking fog seal asphalt emulsion for use in its 2023 roadway maintenance operations.

The fog seal product (if approved) shall be supplied conforming to specification in this document. If requested product verification test results shall be provided prior to application.

HMS-2 MATERIAL

The Logan County Engineer's Office plans to purchase approximately 10,000 gallons of anionic medium to high setting asphalt emulsion for use in its 2023 roadway maintenance operations.

HMS-2 shall be supplied conforming to The Ohio DOT required specification.

MATERIAL

Use the enclosed separate Unit Price Contract form to establish unit prices for the year for the HFRS2-P and HMS-2 emulsion available from your company.

For any bid where total sum of the unit price multiplied by estimated quantity exceeds \$50,000.00 a bid guarantee will be required. The bid guarantee must be a bid bond or certified check in the amount of 5% of the total bid price (sum of estimated quantity multiplied by the unit price). Failure to submit a proper bid bond, if required, will automatically invalidate the bid.

Vendor shall supply a copy of the Safety Data Sheet (SDS) for the product, where applicable, when submitting the unit price bid form.

DELIVERY:

Delivery of all materials shall be of the type and kind and in quantities and at times as the County Engineer or his authorized assistant may so order. Delivery will be in transport quantities. Ordering will occur up to 12 hours before delivery is requested. Failure to timely deliver ordered quantities of liquid shall be cause for termination of the contract.

The bidder shall supply on his bid sheet a telephone number to be used for ordering and the name of the contact person.

Logan County Engineer's Office
SPECIFICATION
for
HFRS-2P CHIP SEAL EMULSION

The asphalt emulsion shall be a polymer modified HFRS-2P meeting the following specifications:

<u>Emulsion (ASTM D 244)</u>	<u>Min</u>	<u>Max</u>
Saybolt Furol Viscosity, 50°C	100	550
Storage stability, 24 hrs, % difference	--	1
Demulsibility, 35 ml of 0.02N, CaCl ₂ , %	50	--
Sieve test, (distilled water), %	--	0.1
Distillation to 190°C or, residue % solids	65	--
Oil distillate, %	--	2

Distillation Residue

Penetration, 100g, 5 sec @25°C - ASTM D 5	75	125
Float Test, sec - ASTM D 139	1200	--
Solubility in TCE, % - ASTM D 2042 or D 5546	97.5	--
Elastic Recovery, 10°C, % - ASTM D 113	58	--

Logan County Engineer's Office
SPECIFICATION
for
FOG SEAL EMULSION
(QF40 specification provided by Asphalt Materials)

<u>Test Parameter on Emulsion</u>	<u>Test Method</u>	<u>Specification</u>
Oil Distillate, Volume % max.	AASHTO T 59	0.5
Residue by Distillation, % min.	AASHTO T 59	35-45
Sieve, % max.	AASHTO T 59	0.3
Viscosity, Saybolt Furol, 25°C, sec	AASHTO T 72	10-100

Test on Emulsion Residue

Penetration, 25°C, 100g, 5 sec, dmm min	AASHTO T 49	55
Solubility in TCE, % min	AASHTO T 44	97.5

**2023 BID FORM
FOR
LIQUID BITUMINOUS
WARM MIX ASPHALT
HPM COLD MIX**

Revision #2, January 12, 2023

MATERIAL	BID PRICE	APPLICATION RATE	IDENTIFY POLYMER MODIFIER (HFRS-2P ONLY)
HFMS-2	\$2.32 /Gal	.40 to .50 Gal/SY	
HFRS-2P	\$2.62 /Gal	.40 to .50 Gal/SY	SBR
Fog Seal (QF-40 or Equal)	\$1.62 /Gal	.10 to .15 Gal/SY	
301 Base	No Bid /Ton		
448 Type 2	No Bid /Ton		
448 Type 1	No Bid /Ton		
HPM Cold Mix	\$115.00 /Ton		


Company Asphalt Materials Inc.

Address 940 N. Wynn Rd.

Oregon, Ohio 43616

Telephone No. 419-693-0626 (For Orders)

Contact Person Tonya Healey (For Orders)

Signature 

OHIO REVISED CODE

NON-COLLUSION AFFIDAVIT

In accordance with Title 23 United States Code, Section 112 and Ohio Revised Code, Chapter 1331 et. seq; and Sections 2921.11 and 2921.13, the bidder hereby states, under penalty of perjury and under other such penalties as the law provides, that he or his agents or employees have not entered either directly or indirectly into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal. Execution of this proposal on the signature portion thereof shall constitute also signature of this Non-Collusion Affidavit

CAMPAIGN CONTRIBUTIONS AFFIDAVIT

Ohio Revised Code Section 3517.13(I) requires that no agency or department of this state or any political subdivision shall award any contract, other than one let by competitive bidding or a contract incidental to such contract or which is by force account, for the purchase of goods costing more than five hundred dollars or services costing more than five hundred dollars to any individual, partnership, association, including, without limitation, a professional association organized under Chapter 1785 of the ORC, estate, or trust if the individual has made or the individual's spouse has made, or any partner, shareholder, administrator, executor, or trustee or the spouse of any of them has made, as an individual, within the two previous calendar years, one or more contributions totaling in excess of one thousand dollars to the holder of the public office having ultimate responsibility for the award of the contract or to the public officer's campaign committee. Furthermore, Ohio Revised Code Section 3517.13(J) requires that no agency or department of this state or any political subdivision shall award any contract, other than one let by competitive bidding or a contract incidental to such contract or which is by force account, for the purchase of goods costing more than five hundred dollars or services costing more than five hundred dollars to a corporation or business trust, except a professional association organized under Chapter 1785 of the ORC, if an owner of more than twenty per cent of the corporation or business trust or the spouse of that person has made, as an individual, within the two previous calendar years, taking into consideration only owners for all of that period, one or more contributions totaling in excess of one thousand dollars to the holder of a public office having ultimate responsibility for the award of the contract or to the public officer's campaign committee. Execution of this proposal on the signature portion thereof shall constitute also signature of this Campaign Contributions Affidavit.

**COMPETITIVE BIDDER'S
PERSONAL PROPERTY TAX AFFIDAVIT
LOGAN COUNTY, OHIO (R.C. 5719.042)**

STATE OF OHIO:

: ss:

LOGAN COUNTY :

The undersigned, being duly sworn, says that he is or represents a competitive bidder doing business in, or with Logan County, Ohio, and that: (Check appropriate lines)

_____ He is a sole proprietorship doing business under his own name.

_____ He is a sole proprietorship doing business under the name of _____

_____ He is a general partner of the partnership known as _____

He is a duly authorized officer of the corporation named
ASPHALT MATERIALS, INC.

The business address of the bidder is 940 N. WYNN RD., OREGON, OH 43619
_____; Telephone 419 693-0626

The undersigned further says that the bidder at the time of submitting his or its bid:

Was not charged with any delinquent personal taxes in Logan County, Ohio.

_____ Was charged with delinquent personal property taxes as follows:

YEAR	AMOUNT	PENALTY	INTEREST
20 _____	\$ _____	\$ _____	\$ _____
20 _____	\$ _____	\$ _____	\$ _____
20 _____	\$ _____	\$ _____	\$ _____

Signed: 

Title: SALES MANAGER

STATE OF OHIO:
; SS:
LOGAN COUNTY :

Before me, a notary, in and for said county, personally appeared

CLARENCE BROOKS, JR. (sole proprietor doing business under his own name)

(sole proprietor doing business under the name of _____)

(general partner of the Partnership known as _____)

(duly authorized officer of the Corporation name ASPHALT MATERIALS, INC.).

who acknowledged that he is authorized in the premises and that his signing of this instrument is the free act and deed of himself or the organization which he represents.

In testimony whereof, I have hereunto subscribed my name and affixed my official seal at

OREGON, Ohio, this 13th day of January, 2023.

Jennifer Keeton
Notary Public



JENNIFER J KEETON
Notary Public
State of Ohio
My Comm. Expires
November 5, 2027

COMMISSIONERS:

_____ No delinquent taxes - file
_____ Delinquent taxes - sent to County Engineer

Clerk

**2023
PLAN-HOLDERS LIST**

LIQUID BITUMINOUS & CONCRETE ASPHALT

The Shelly Company
Attn: Brent Good
1700 Fostoria Avenue
Suite 200
PO Box 3100
Findlay, OH 45840
BreGood@shellyco.com

K-Tech Specialty
P.O. Box 428
Ashley, IN 46705
jm@vicko.ktechcoatings.com

Asphalt Material, Inc.
940 N. Wynn Road
Oregon, OH 43616
rick_reynolds@asphalt-material.com

Builders Exchange-Dayton
2977 Embury Park Road
Dayton, OH 45414
1-866-907-6300
1-937-278-3843 (Fax)

McGraw-Hill/DodgeReports
90 Contract Street
Suite 100-A
Lexington, KY 40505
800-393-6343 (Phone)
800-625-3488 (Fax)
lorice_reedmy@mcgraw-hill.com

Ohio Construction News
7261 Engle Road, Suite 304
Cleveland, OH 44130
800-969-4700 (Phone)
800-229-4626 (Fax)

Asphalt Materials, Inc.

Columbus: 614-274-6767 ~ Edlson: 419-947-2227 Marietta: 740-374-5100 ~ Oregon: 419-693-0626

EMULSION REPORT

JOB NUMBER:

DATE: January 11, 2023

COMPANY: Asphalt Materials, Inc. (Ohio)

DESCRIPTION: HFMS-2

TEST	RESULT	METHOD
Furol Viscosity @ 25°C, sec.	241	AASHTO T 59
Residue by Distillation, %	68.4	AASHTO T 59
Oil by Volume, %	Trace	AASHTO T 59
Storage Stability, %	0.1	AASHTO T 59
Stone Coating Test	Pass	AASHTO T 59

TESTS ON RESIDUE

Penetration @ 25°C, dmm.	146	AASHTO T 49
Solubility, %	99.9	AASHTO T 44
Ductility @ 25°C, cm.	100+	AASHTO T 51
Float @ 60°C, sec.	1200+	AASHTO T 50

Data Reviewed By: 

Asphalt Materials, Inc.

Columbus: 614-274-6767 ~ Edison: 419-947-2227 Marietta: 740-374-5100 ~ Oregon: 419-693-0626

EMULSION REPORT

JOB NUMBER:

DATE: January 10, 2023

COMPANY: Asphalt Materials, inc. (Ohio)

DESCRIPTION: HFRS-2P

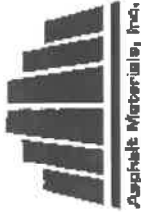
TEST	RESULT	METHOD
Furol Viscosity @ 50°C, sec.	260	AASHTO T 59
Residue by Distillation, %	68.3	AASHTO T 59
Oil by Volume, %	Trace	AASHTO T 59
Sieve by Weight, %	<0.1	AASHTO T 59
Storage Stability, %	0.4	AASHTO T 59
Settlement, %	1.2	AASHTO T 59
Particle Charge	Neg.	AASHTO T 59
QB Demulsibility, %		
35 ml .02N CaCl ₂	91.6	AASHTO T 59

TESTS ON RESIDUE

Penetration @ 25°C, dmm.	95	AASHTO T 49
Solubility, %	99.9	AASHTO T 44
Ductility @ 4°C, cm*	70+	AASHTO T 51
Float Test, 60°C, sec	1200+	AASHTO T 50
Elastic Recovery, %	74	AASHTO T 301
Softening Point, °C	63	AASHTO T 53

* = SBR

Data Reviewed By: LO. Z. [Signature]



QF-40

Guidelines for Application and Handling

Description

QF-40 is a cationic fog seal asphalt emulsion manufactured from performance grade asphalt. It is applied to an existing pavement to enrich the weathered & oxidized surface by adding extra binder to the substrate, which results in the reduction of ravelling of surface aggregate and improves the appearance of the pavement. For optimum results it is important to follow these guidelines on application, handling, and storage guidelines.

Application

QF-40 is to be applied using conventional asphalt emulsion distributors on surfaces that are clean, dry, and free of any substance that may inhibit adhesion. If flushing of the pavement is required allow 24 hours of cure time before traffic is allowed to return. Experience has demonstrated that the proper application rate, temperature, and procedure are key components to constructing a quality asphalt paving project. For best results please follow local agency specifications and requirements

Rates and Spraying

Ambient conditions, pavement surface conditions, pavement type, and local agency specification requirements will influence the desired application rate. AEMA recommendations for application rates are 0.03 – 0.11 (gal/yd²) for TIGHT SURFACE and 0.09 – 0.22 (gal/yd²) for OPEN SURFACE.

To achieve the most desired results, a uniform layer of the QF-40 adequately covering the pavement surface is important. To apply a uniform application, the equipment must be capable of delivering the QF-40 at the required temperature and pressure. Proper selection of spray bar nozzles (1/8 to 3/16 inch diameter) and angle alignment of the nozzles must be verified prior to application.

Temperature

The recommended temperature range for application is 160°F to 180°F under normal seasonal construction weather conditions. In cooler, cloudy weather conditions, or nighttime or shaded projects, it is advisable to apply the QF-40 at 170°F–180°F, but in no case heated above 180°F

Storage and Handling

Proper storage and handling guidelines must be carefully adhered to for best results. QF-40 emulsion should be stored in clean storage tanks to prevent contamination with other products. When the product is stored in an asphalt distributor, it should be agitated 2 times daily at 15 minute intervals to minimize settlement and stagnant surface exposure to air. It is recommended to heat and circulate the product prior to application in a gentle manner to avoid product damage or affected performance. Gradually heat to 140°F, and begin pump circulation at 125 gallons per minute until desired temperature is reached. At this point begin and maintain circulation in the spray bars for 30 minutes prior to application. As with all emulsions, overheating or allowing the emulsion to freeze will break the product and prevent future use. Also be sure to avoid over pumping, over recirculation, or mixing different grades of emulsions.

Typical Properties

Test Parameter on Emulsion	Test Method	Specification
Oil Distillate, Volume % max.	AASHTO T 59	0.5
Residue by Distillation, % min.	AASHTO T 59	35-45
Sieve, % max.	AASHTO T 59	0.3
Viscosity, Saybolt Furol, 25°C, sec	AASHTO T 72	10-100
Test on Emulsion Residue		
Penetration, 25°C, 100g, 5 sec, dmm min	AASHTO T 49	55
Solubility in TCE, % min	AASHTO T 44	97.5

Asphalt Materials, Inc.

Columbus: 614-274-6767 ~ Edison: 419-947-2227 Marietta: 740-374-5100 ~ Oregon: 419-693-0626

EMULSION REPORT

JOB NUMBER:

DATE: January 10, 2023

COMPANY: Asphalt Materials, Inc. (Ohio)

DESCRIPTION: SS-1h (diluted)

TEST	RESULT	METHOD
Furol Viscosity @ 25°C, sec.	16	AASHTO T 59
Residue by Distillation, %	30	AASHTO T 59
Sieve by Weight, %	<0.1	AASHTO T 59
Particle Charge Test	Negative	AASHTO T 59

TESTS ON RESIDUE

Penetration @ 25°C, dmm.	61	AASHTO T 49
Solubility, %	99.9	AASHTO T 44
Ductility @ 25°C, cm.	100	AASHTO T 51

Data Reviewed By: [Signature]

CNA SURETY

Bid Bond

Bond No. Bid Bond

CONTRACTOR:
(Name, legal status and address)

Asphalt Materials, Inc.
940 N. Wynn Road
Oregon, OH 43616

SURETY: Continental Casualty Company
(Name, legal status and principal place of business)

151 N. Franklin Street
17th Floor
Chicago, IL 60606

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

OWNER:
(Name, legal status and address)

Logan County Commissioners
117 E. Columbus Avenue, Suite 100
Bellefontaine, OH 43311

BOND AMOUNT: 6% Five Percent of Amount Bid

PROJECT:
(Name, location or address, and Project number, if any)
Liquid Bituminous Materials

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

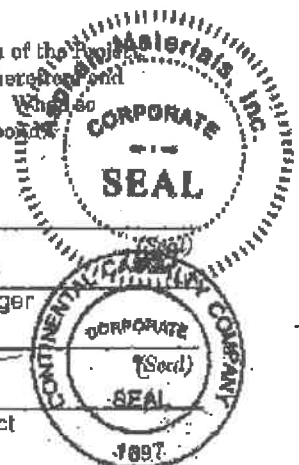
When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom, and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 19th day of January, 2023

Jennifer Keeton
(Witness) Jennifer Keeton

Andrew A. Lanphere
(Witness) Andrew A. Lanphere

Asphalt Materials, Inc.
(Principal) Clarence Brooks, Jr.
By: Clarence Brooks, Jr.
(Title) Clarence Brooks, Jr., Sales Manager
Continental Casualty Company
(Surety) Kathryn R. Postma
By: Kathryn R. Postma
(Title) Kathryn R. Postma, Attorney-in-Fact



POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, The Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company (herein called "the CNA Companies"), are duly organized and existing insurance companies having their principal offices in the City of Chicago, and State of Illinois, and that they do by virtue of the signatures and seals herein affixed hereby make, constitute and appoint

Kathryn R. Postma , Individually

of Indianapolis, IN , their true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on their behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

Surety Bond No.: **Bid Bond**
 Principal: **Asphalt Materials, Inc.**
 Obligor: **Logan County Commissioners**

and to bind them thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of their insurance companies and all the acts of said Attorney, pursuant to the authority hereby given is hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law and Resolutions, printed on the reverse hereof, duly adopted, as indicated, by the Boards of Directors of the insurance companies.

In Witness Whereof, the CNA Companies have caused these presents to be signed by their Vice President and their corporate seals to be hereto affixed on this 16th day of June, 2021.

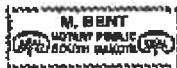


Continental Casualty Company
 National Fire Insurance Company of Hartford
 American Casualty Company of Reading, Pennsylvania

Paul T. Bruffa
 Paul T. Bruffa Vice President

State of South Dakota, County of Minnehaha, ss:

On this 16th day of June, 2021, before me personally came Paul T. Bruffa to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is a Vice President of Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company described in and which executed the above instrument; that he knows the seals of said insurance companies; that the seals affixed to the said instrument are such corporate seals; that they were so affixed pursuant to authority given by the Boards of Directors of said insurance companies and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said insurance companies.



My Commission Expires March 2, 2026

M. Bent
 M. Bent Notary Public

CERTIFICATE

I, D. Johnson, Assistant Secretary of Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company do hereby certify that the Power of Attorney herein above set forth is still in force, and further certify that the By-Law and Resolution of the Board of Directors of the insurance companies printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said insurance companies this 18th day of January, 2023.



Continental Casualty Company
 National Fire Insurance Company of Hartford
 American Casualty Company of Reading, Pennsylvania

D. Johnson
 D. Johnson Assistant Secretary

Form J-6853-4/2012

Go to www.cnasurety.com > Owner / Obligor Services > Validate Bond Coverage, if you want to verify bond authenticity.

Authorizing By-Laws and Resolutions

ADOPTED BY THE BOARD OF DIRECTORS OF CONTINENTAL CASUALTY COMPANY:

This Power of Attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the Board of Directors of the Company at a meeting held on May 12, 1995:

"RESOLVED: That any Senior or Group Vice President may authorize an officer to sign specific documents, agreements and instruments on behalf of the Company provided that the name of such authorized officer and a description of the documents, agreements or instruments that such officer may sign will be provided in writing by the Senior or Group Vice President to the Secretary of the Company prior to such execution becoming effective."

This Power of Attorney is signed by Paul T. Bruffat, Vice President, who has been authorized pursuant to the above resolution to execute power of attorneys on behalf of Continental Casualty Company.

This Power of Attorney is signed and sealed by facsimile and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 25th day of April, 2012:

"Whereas, the bylaws of the Company or specific resolution of the Board of Directors has authorized various officers (the "Authorized Officers") to execute various policies, bonds, undertakings and other obligatory instruments of like nature; and

Whereas, from time to time, the signature of the Authorized Officers, in addition to being provided in original, hard copy format, may be provided via facsimile or otherwise in an electronic format (collectively, "Electronic Signatures"); Now therefore be it resolved: that the Electronic Signatures of any Authorized Officer shall be valid and binding on the Company."

ADOPTED BY THE BOARD OF DIRECTORS OF NATIONAL FIRE INSURANCE COMPANY OF HARTFORD:

This Power of Attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the Board of Directors of the Company by unanimous written consent dated May 10, 1995:

"RESOLVED: That any Senior or Group Vice President may authorize an officer to sign specific documents, agreements and instruments on behalf of the Company provided that the name of such authorized officer and a description of the documents, agreements or instruments that such officer may sign will be provided in writing by the Senior or Group Vice President to the Secretary of the Company prior to such execution becoming effective."



HFMS-1, HFMS-2, HFMS-2h, HFMS-2s, HFRE, AE-90G, AE-150G, AE-300G

SDS Number: AMI-218

Revision Date: 2/1/2019

Page 1 of 5

PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Asphalt Materials, Inc.
5400 W. 86th Street
Indianapolis, Indiana 46268

Vendor

Asphalt Materials, Inc.
5400 W. 86th Street
Indianapolis, Indiana 46268

Emergency: CHEMTREC: 800-424-9300
Contact: Keith Toombs
Phone: 317-872-6010
Fax: 317-874-4900
Email: ktoombs@asphalt-materials.com
Web: www.asphalt-materials.com

Emergency: CHEMTREC: 800-424-9300
Contact: Keith Toombs
Phone: 317-872-6010
Fax: 317-874-4900
Email: ktoombs@asphalt-materials.com
Web: www.asphalt-materials.com

Product Name: HFMS-1, HFMS-2, HFMS-2h, HFMS-2s, HFRE, AE-90G, AE-150G, AE-300G
Revision Date: 2/1/2019
SDS Number: AMI-218
Common Name: Asphalt Emulsion Anionic
CAS Number: Mixture
Chemical Family: Emulsified complex petroleum hydrocarbon and water
Synonyms: Anionic Asphalt Emulsion, Emulsified Asphalt
Product Use: Highway Paving Applications and Mixtures

HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):
Health, Acute toxicity, 5 Dermal
Health, Serious Eye Damage/Eye Irritation, 2 B

GHS Label elements, including precautionary statements

GHS Signal Word: WARNING

GHS Hazard Pictograms:

no GHS pictograms indicated for this product

GHS Hazard Statements:

H313 - May be harmful in contact with skin
H320 - Causes eye irritation

GHS Precautionary Statements:

P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Hazards not otherwise classified (HNOC) or not covered by GHS

Inhalation: Breathing vapors, fumes, or mists may cause irritation to nasal and respiratory tract and central nervous system effects. Symptoms may include labored breathing, sore throat, coughing, wheezing, headache, and nausea.
Skin Contact: Contact with hot emulsified asphalt can cause minor thermal burns. Prolonged exposure to vapors, fumes, or mists may cause irritation and redness.
Eye Contact: Contact with hot emulsified asphalt can cause thermal burns to the eyes. Prolonged exposure to vapors, fumes, or mists may cause irritation, redness, and tearing.
Ingestion: Ingestion is not likely. Ingestion may cause thermal burns. If ingestion of molten material occurs, keep victim's head below their hips to prevent asphalt from reaching the lungs. Take victim to obtain medical



assistance immediately.

4 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
8052-42-4	55-75%	Asphalt (typical)
0	<2%	Antistrip Adhesion Promoter, Proprietary
65997-01-5	1-5%	Tall oil, sodium salt
7732-18-5	25-45%	Water
68476-30-2	<25%	Fuel oil no. 2

Asphalt: Asphalt is a complex mixture of high molecular weight hydrocarbons produced from crude petroleum. Composition varies depending on the source of the crude and the specifications of the final product.

ACGIH: The American Conference of Governmental Industrial Hygienists recommends an exposure limit of 0.5 mg/m³ as benzene-extractable inhalable particulate (or equivalent method) to avoid irritation of the conjunctive mucous membranes. Historical information on exposure of asphalt workers used methods different than those recommended by ACGIH, so comparisons to the recommended exposure limits are not known.

5 FIRST AID MEASURES

- Inhalation:** If irritation occurs from inhalation overexposure, immediately remove victim from source to fresh air and seek medical attention.
- Skin Contact:**
 - Hot Emulsified Material: Cool the affected body parts immediately by submerging in cold water until the material has cooled. Do not attempt to remove solidified material from burn area as this may further tissue damage. Take the victim to obtain medical assistance immediately.
 - Cold Emulsified Material: Remove cold emulsified asphalt by soaking dressing in mineral oil and place over affected area for 2-3 hours. If irritation occurs, call a physician.
- Eye Contact:** Never try to remove material with solvents. Gently flush immediately with cold water for 15 minutes. Do not attempt to remove solidified material from the eye, as this may further injury. Take victim to obtain medical assistance.
- Ingestion:** Ingestion is not likely. If large amounts are swallowed, do not induce vomiting and immediately call a physician.

6 FIRE FIGHTING MEASURES

- Flash Point:** Not Applicable
- Autoignition Temp:** >400°F
- LEL:** Not Applicable
- UEL:** Not Applicable
- Extinguishing Media:** Foam, Carbon Dioxide, Dry Chemical, and water spray may all be suitable in extinguishing fires involving this product.
- Fire Fighting Instructions:** Avoid water streams to prevent frothing. Use water spray to cool exposed surfaces.

7 ACCIDENTAL RELEASE MEASURES

Stop source of leak if safe to do so. Eliminate sources of ignition. Contain by diking or impounding. Absorbents can be used to contain small spills. After containment, emulsified asphalt can be collected for disposal. Advise authorities if product has entered a drainage sewer or a water source. Assure conformity with local, state, and federal government regulations for disposal.



7 HANDLING AND STORAGE

Handling Precautions:

When opening covers and outlet caps on storage tanks, monitor the vapor space for hydrogen sulfide levels. Use faceshield and gloves to avoid possible injury from pressurized asphalt. Long sleeved shirts and pants should be worn to minimize thermal burns. Stay upwind and vent storage tanks before unloading. Keep heating units and flues in storage tanks covered with at least 12 inches of asphalt. Do not overheat.

Empty Container Warning: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY BURN OR EXPLODE AND CAUSE INJURY OR DEATH.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Local or general exhaust required if in an enclosed area to remain below the TLV. If workplace exposure limits are exceeded, a NIOSH/MSHA-approved air-supplied respirator is advised in the absence of proper environmental engineering controls.

Personal Protective Equipment:

Eye and Face Protection: Safety glasses or chemical splash goggles with faceshield if splashing is anticipated.

Skin Protection: Oil-impervious gloves, such as Neoprene, if frequent or prolonged contact is expected. Long-sleeve shirts and long pants should be worn at all times around asphalt to prevent thermal burns.

Respiratory Protection: Respiratory protection is not normally required under normal conditions and adequate ventilation. If high vapors are expected, use a respirator approved for organic vapors. Observe respirator protection factor criteria cited in ANSI Z88.2 (1980) and other OSHA requirements found in 29 CFR 1910.134. Use air-supplied respirators or self-contained breathing apparatus for fire fighting and in confined spaces when asphalt vapor or Hydrogen Sulfide gas exceeds permissible limits.

Work/Hygienic Practices: Skin contact and the breathing of mists, fumes, or vapors should be reduced to a minimum to avoid any ill effects. Thoroughly wash exposed skin areas after work to avoid dermatitis. Consider the use of lanolin skin treatments before handling or working around asphalt mixtures.

Other Protection: Wear body-covering clothes to avoid prolonged or repeated exposure. Launder before reuse.

PETROLEUM ASPHALT:

- OSHA PEL: Not established for this material.
- ACGIH TLV: 0.5 mg/m³ as benzene-extractable inhalable particulate (or equivalent method)
- NIOSH REL: 5.0 mg/m³ as a 15-minute ceiling limit measured as total particulates.

ANTISTRIP ADHESION PROMOTER, Proprietary:

- OSHA PEL: Not established for this material.

TALL OIL SODIUM SALT:

- OSHA PEL: Not established for this material.

No. 2 FUEL OIL:

- OSHA PEL: Not established for this material.



HFMS-1, HFMS-2, HFMS-2h, HFMS-2s, HFRE, AE-90G, AE-150G, AE-300G

SDS Number: AMI-218

Revision Date: 2/1/2019

Page 4 of 5

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown Liquid	Odor:	Characteristic asphalt odor
Physical State:	Liquid	Solubility:	Completely
Spec Grav./Density:	0.92 - 1.05	Flash Point:	Not Applicable
Boiling Point:	212°F	Vapor Density:	>1.0
Flammability:	Aqueous, Non-Flammable	Auto-ignition Temp:	>400°F
Vapor Pressure:	1.9 E-9 psia	UFL/LFL:	Not Applicable
pH:	7 - 11		
Molecular weight:	280		

STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Contact with oxidizers
Materials to Avoid:	Strong Oxidizing Agents.
Hazardous Decomposition:	Fumes, smoke, carbon monoxide, hydrogen sulfide, aldehydes, and hydrocarbons.
Hazardous Polymerization:	Will not occur.

TOXICOLOGICAL INFORMATION

International Agency for Research on Cancer Ruling

Occupational exposures to straight-run bitumens and their emissions during road paving:

On the basis of an earlier meta-analysis, the IARC multi-center study and several more recent independent studies, the Working Group concluded that there was inadequate evidence in humans for the carcinogenicity of occupational exposures during road paving with straight-run bitumens. Also, there was inadequate evidence in experimental animals for the carcinogenicity of extracts and of fume condensates of this type of bitumens. However, studies of workers exposed to bitumen emissions during paving with straight-run bitumens showed mutagenic and genotoxic/cytogenetic effects in these workers. Similar effects were also observed in experimental systems under controlled conditions. This strong mechanistic evidence led to the classification of occupational exposures to straight-run bitumens and their emissions during road paving as "possibly carcinogenic to humans" (Group 2B).

Health Hazard Characterization:

Uncertainties exist in the hazard characterization of asphalt fumes by many factors including its chemical complexity, limitation of the information, the inclusion of coal tar in asphalts in past decades, other confounders and mixed results of human studies. Concise International Chemical Assessment Documents relating to asphalt and fumes can be obtained on the internet at <http://incchem.org/documents/cicads/cicads/cicad59.htm>. Despite conflicting reports, the following bullet points should be noted:

- Currently classified as A4 (not classifiable as a human carcinogen). Asphalt Coal Tar Free
- Breathing of mists, fumes, or vapors should be reduced to a minimum to avoid any ill effects.
- Asphalt and asphalt fumes contain trace levels of polynuclear aromatic hydrocarbons that are known carcinogens.
- Chronic health effects would not be expected as long as good hygiene and proper safety precautions are practiced and exposures are less than the TLVs/RELs.
- After using material or being around fumes, wash exposed areas thoroughly with soap and water. Showering immediately after work is a good personal hygiene practiced.

No. 2 FUEL OIL:

Lifetime skin painting studies in animals with similar distillate fuels have produced weak carcinogenic activity following prolonged and repeated exposure. Repeated dermal application has produced severe irritation and systematic toxicity in subacute toxicity studies. Some components of distillate fuels, i.e., paraffins and olefins, have been shown to produce a species-specific, sex hormonal dependent kidney lesion in male rats from repeated oral or inhalation exposures. Jet fuel and No. 1 fuel oil were found to be positive in a few mutagenicity tests while negative in the majority of others. The exact relationship between these results and human health is not known. Chronic human health effects would not be expected as long as good personal hygiene and proper safety precautions are practiced.



12 ECOLOGICAL INFORMATION

May cause fouling of water. May be toxic to aquatic animals. Once solidified, this product will no longer exhibit these characteristics.

13 DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state, and federal regulations. After cooling, waste or contaminated asphalt mixtures may be scooped and stockpiled for later recycling into asphalt pavement mixtures, pugmilled into cold mix, or disposed in an approved special waste, industrial waste, or construction debris landfill.

RCRA Information:

This material, if discarded as produced, is not a RCRA "listed" or "characteristic" hazardous waste. Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. It is the responsibility of the generator to fully characterize for toxicity and other RCRA parameters prior to disposal (40 CFR 261). Along with properly characterizing all waste materials, consult state and local regulations regarding proper disposal of this material.

14 TRANSPORT INFORMATION

This product as produced and shipped is not considered a hazardous material by the U.S. Department of Transportation.

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Asphalt (typical) (8052-42-4) [55-75%] MASS, NRC, PA, TSCA, TXAIR

Antistrip Adhesion Promoter, Proprietary (0) [<2%]

Tall oil, sodium salt (65997-01-5) [1-5%] TSCA

Water (7732-18-5) [25-45%] TSCA

Fuel oil no. 2 (68476-30-2) [<25%] TSCA

Regulatory CODE Descriptions

- MASS = MA Massachusetts Hazardous Substances List
NRC = Nationally Recognized Carcinogens
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level

16 OTHER INFORMATION

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).



PRODUCT AND COMPANY IDENTIFICATION

Manufacturer
Asphalt Materials, Inc.
5400 W. 86th Street
Indianapolis, Indiana 46268

Vendor
Asphalt Materials, Inc.
5400 W. 86th Street
Indianapolis, Indiana 46268

Contact: Keith Toombs
Phone: 317-872-6010
Fax: 317-874-4900
Email: ktoombs@asphalt-materials.com
Web: www.asphalt-materials.com
Emergency: CHEMTREC: 800-424-9300

Contact: Keith Toombs
Phone: 317-872-6010
Fax: 317-874-4900
Email: ktoombs@asphalt-materials.com
Web: www.asphalt-materials.com
Emergency: CHEMTREC: 800-424-9300

Product Identifier: RS-2P, RS-2M, HFRS-2P, HFRS-2M, AE-90S, MSP-1
Synonyms: Anionic Asphalt Rubber Emulsion, Emulsified Rubber Asphalt
Common Name: Asphalt Emulsion Anionic
SDS Number: AMI-213
Revision Date: 6/29/2021
CAS Number: Mixture
Chemical Family: Emulsified complex petroleum hydrocarbon and water
Product Use: Highway Paving Applications and Mixtures
Instructions: Do not apply within 24 hours of a rain event.

HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):
Health, Acute toxicity, 5 Dermal
Health, Serious Eye Damage/Eye Irritation, 2 B

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: WARNING

GHS Hazard Pictograms:

No GHS pictograms indicated for this product

GHS Hazard Statements:

H313 - May be harmful in contact with skin
H320 - Causes eye irritation

GHS Precautionary Statements:

P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Inhalation: Breathing vapors, fumes, or mists may cause irritation to nasal and respiratory tract and central nervous system effects. Symptoms may include labored breathing, sore throat, coughing, wheezing, headache, and nausea.

Skin Contact: Contact with hot emulsified asphalt can cause minor thermal burns. Prolonged exposure to vapors, fumes, or mists may cause irritation and redness.

Eye Contact: Contact with hot emulsified asphalt can cause thermal burns to the eyes. Prolonged exposure to vapors, fumes, or mists may cause irritation, redness, and tearing.

Ingestion: Ingestion is not likely. Ingestion may cause thermal burns. If ingestion of molten material occurs, keep



victim's head below their hips to prevent asphalt from reaching the lungs. Take victim to obtain medical assistance immediately.

COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Ingredients:		
CAS#	%	Chemical Name:
8052-42-4	55-75%	Asphalt (typical)
0	<2%	Antistrip Adhesion Promoter, Proprietary
65997-01-5	0.5-5%	Tall oil, sodium salt
7732-18-5	25-45%	Water
68476-30-2	<25%	Fuel oil no. 2
0	<5%	Polymer Modifier, Proprietary
0	<1%	Vulcanizing Agent, Proprietary

Asphalt: Asphalt is a complex mixture of high molecular weight hydrocarbons produced from crude petroleum. Composition varies depending on the source of the crude and the specifications of the final product.

ACGIH: The American Conference of Governmental Industrial Hygienists recommends an exposure limit of 0.5 mg/m³ as benzene-extractable inhalable particulate (or equivalent method) to avoid irritation of the conjunctive mucous membranes. Historical information on exposure of asphalt workers used methods different than those recommended by ACGIH, so comparisons to the recommended exposure limits are not known.

FIRST AID MEASURES

- Inhalation:** If irritation occurs from inhalation overexposure, immediately remove victim from source to fresh air and seek medical attention.
- Skin Contact:**
 - Hot Emulsified Material:** Cool the affected body parts immediately by submerging in cold water until the material has cooled. Do not attempt to remove solidified material from burn area as this may further tissue damage. Take the victim to obtain medical assistance immediately.
 - Cold Emulsified Material:** Remove cold emulsified asphalt by soaking dressing in mineral oil and place over affected area for 2-3 hours. If irritation occurs, call a physician.
- Eye Contact:** Never try to remove material with solvents. Gently flush immediately with cold water for 15 minutes. Do not attempt to remove solidified material from the eye, as this may further injury. Take victim to obtain medical assistance.
- Ingestion:** Ingestion is not likely. If large amounts are swallowed, do not induce vomiting and immediately call a physician.

FIRE FIGHTING MEASURES

- Flash Point:** Not Applicable
- Autoignition Temp:** >400°F
- LEL:** Not Applicable
- UEL:** Not Applicable
- Extinguishing Media:** Foam, Carbon Dioxide, Dry Chemical, and water spray may all be suitable in extinguishing fires involving this product.
- Fire Fighting Instructions:** Avoid water streams to prevent frothing. Use water spray to cool exposed surfaces.



ACCIDENTAL RELEASE MEASURES

Stop source of leak if safe to do so. Eliminate sources of ignition. Contain by diking or impounding. Absorbents can be used to contain small spills. After containment, emulsified asphalt can be collected for disposal. Advise authorities if product has entered a drainage sewer or a water source. Assure conformity with local, state, and federal government regulations for disposal.

HANDLING AND STORAGE

Handling Precautions:

When opening covers and outlet caps on storage tanks, monitor the vapor space for hydrogen sulfide levels. Use faceshield and gloves to avoid possible injury from pressurized asphalt. Long sleeved shirts and pants should be worn to minimize thermal burns. Stay upwind and vent storage tanks before unloading. Keep heating units and flues in storage tanks covered with at least 12 inches of asphalt. Do not overheat.

Empty Container Warning: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY BURN OR EXPLODE AND CAUSE INJURY OR DEATH.



EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Local or general exhaust required if in an enclosed area to remain below the TLV. If workplace exposure limits are exceeded, a NIOSH/MSHA-approved air-supplied respirator is advised in the absence of proper environmental engineering controls.

Personal Protective Equipment:

Eye and Face Protection: Safety glasses or chemical splash goggles with faceshield if splashing is anticipated.

Skin Protection: Oil-impervious gloves, such as Neoprene, if frequent or prolonged contact is expected. Long-sleeve shirts and long pants should be worn at all times around asphalt to prevent thermal burns.

Respiratory Protection: Respiratory protection is not normally required under normal conditions and adequate ventilation. If high vapors are expected, use a respirator approved for organic vapors. Observe respirator protection factor criteria cited in ANSI Z88.2 (1980) and other OSHA requirements found in 29 CFR 1910.134. Use air-supplied respirators or self-contained breathing apparatus for fire fighting and in confined spaces when asphalt vapor or Hydrogen Sulfide gas exceeds permissible limits.

Work/Hygienic Practices: Skin contact and the breathing of mists, fumes, or vapors should be reduced to a minimum to avoid any ill effects. Thoroughly wash exposed skin areas after work to avoid dermatitis. Consider the use of lanolin skin treatments before handling or working around asphalt mixtures.

Other Protection: Wear body-covering clothes to avoid prolonged or repeated exposure. Launder before reuse.

PETROLEUM ASPHALT:

- OSHA PEL: Not established for this material.
ACGIH TLV: 0.5 mg/m³ as benzene-extractable inhalable particulate (or equivalent method)
NIOSH REL: 5.0 mg/m³ as a 15-minute ceiling limit measured as total particulates.

ANTISTRIP ADHESION PROMOTER, Proprietary:

- OSHA PEL: Not established for this material.

TALL OIL SODIUM SALT:

- OSHA PEL: Not established for this material.

No. 2 FUEL OIL:

- OSHA PEL: Not established for this material.

POLYMER MODIFIER, Proprietary:

- OSHA PEL: Not established for this material.

VULCANIZING AGENT, Proprietary:

- OSHA PEL: Not established for this material.

PHYSICAL AND CHEMICAL PROPERTIES

Table with 4 columns: Property Name, Value, Property Name, Value. Includes Appearance (Brown Liquid), Physical State (Liquid), Spec Grav./Density (0.92 - 1.05), Boiling Point (212°F), Flammability (Aqueous, Non-Flammable), Vapor Pressure (1.9 E-9 psia), pH (7 - 11), Molecular weight (280), Odor (Characteristic asphalt odor), Solubility (Completely), Flash Point (Not Applicable), Vapor Density (>1.0), Auto-Ignition Temp (>400°F), UFL/LFL (Not Applicable).



STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Contact with oxidizers
Materials to Avoid:	Strong Oxidizing Agents.
Hazardous Decomposition:	Fumes, smoke, carbon monoxide, hydrogen sulfide, aldehydes, and hydrocarbons.
Hazardous Polymerization:	Will not occur.

TOXICOLOGICAL INFORMATION

International Agency for Research on Cancer Ruling

Occupational exposures to straight-run bitumens and their emissions during road paving: On the basis of an earlier meta-analysis, the IARC multi-center study and several more recent independent studies, the Working Group concluded that there was inadequate evidence in humans for the carcinogenicity of occupational exposures during road paving with straight-run bitumens. Also, there was inadequate evidence in experimental animals for the carcinogenicity of extracts and of fume condensates of this type of bitumens. However, studies of workers exposed to bitumen emissions during paving with straight-run bitumens showed mutagenic and genotoxic/cytogenetic effects in these workers. Similar effects were also observed in experimental systems under controlled conditions. This strong mechanistic evidence led to the classification of occupational exposures to straight-run bitumens and their emissions during road paving as "possibly carcinogenic to humans" (Group 2B).

Health Hazard Characterization:

Uncertainties exist in the hazard characterization of asphalt fumes by many factors including its chemical complexity, limitation of the information, the inclusion of coal tar in asphalts in past decades, other confounders and mixed results of human studies. Concise International Chemical Assessment Documents relating to asphalt and fumes can be obtained on the internet at <http://incem.org/documents/cicads/cicads/cicad59.htm>. Despite conflicting reports, the following bullet points should be noted:

- Currently classified as A4 (not classifiable as a human carcinogen). Asphalt Coal Tar Free
- Breathing of mists, fumes, or vapors should be reduced to a minimum to avoid any ill effects.
- Asphalt and asphalt fumes contain trace levels of polynuclear aromatic hydrocarbons that are known carcinogens.
- Chronic health effects would not be expected as long as good hygiene and proper safety precautions are practiced and exposures are less than the TLVs/RELS.
- After using material or being around fumes, wash exposed areas thoroughly with soap and water. Showering immediately after work is a good personal hygiene practice.

No. 2 FUEL OIL:

Lifetime skin painting studies in animals with similar distillate fuels have produced weak carcinogenic activity following prolonged and repeated exposure. Repeated dermal application has produced severe irritation and systemic toxicity in subacute toxicity studies. Some components of distillate fuels, i.e., paraffins and olefins, have been shown to produce a species-specific, sex hormonal dependent kidney lesion in male rats from repeated oral or inhalation exposure. Jet fuel and No. 1 fuel oil were found to be positive in a few mutagenicity tests while negative in the majority of others. The exact relationship between these results and human health is not known. Chronic human health effects would not be expected as long as good personal hygiene and proper safety precautions are practiced.

ECOLOGICAL INFORMATION

May cause fouling of water. May be toxic to aquatic animals. Once solidified, this product will no longer exhibit these characteristics.

DISPOSAL CONSIDERATIONS

TRANSPORT INFORMATION

This product as produced and shipped is not considered a hazardous material by the U.S. Department of Transportation.



REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Asphalt (typical) (8052-42-4) [55-75%] MASS, NRC, PA, TSCA, TXAIR

Antistrip Adhesion Promoter, Proprietary (0) [<2%]

Tall oil, sodium salt (65997-01-5) [0.5-5%] TSCA

Water (7732-18-5) [25-45%] TSCA

Fuel oil no. 2 (68476-30-2) [<25%] TSCA

Polymer Modifier, Proprietary (0) [<5%]

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory CODE Descriptions

- MASS = MA Massachusetts Hazardous Substances List
- NRC = Nationally Recognized Carcinogens
- PA = PA Right-To-Know List of Hazardous Substances
- TSCA = Toxic Substances Control Act
- TXAIR = TX Air Contaminants with Health Effects Screening Level

OTHER INFORMATION

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

Asphalt Materials, Inc.

Revision Date: 6/29/2021



CRPE, QF-40

SDS Number: AMI-405

Revision Date: 2/1/2019

Page 1 of 5

PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Asphalt Materials, Inc.
5400 W. 86th Street
Indianapolis, Indiana 46268

Vendor

Asphalt Materials, Inc.
5400 W. 86th Street
Indianapolis, Indiana 46268

Emergency: CHEMTREC: 800-424-9300
Contact: Keith Toombs
Phone: 317-872-6010
Fax: 317-874-4900
Email: ktoombs@asphalt-materials.com
Web: www.asphalt-materials.com

Emergency: CHEMTREC: 800-424-9300
Contact: Keith Toombs
Phone: 317-872-6010
Fax: 317-874-4900
Email: ktoombs@asphalt-materials.com
Web: www.asphalt-materials.com

Product Name: CRPE, QF-40
Revision Date: 2/1/2019
SDS Number: AMI-405
Common Name: Asphalt Emulsion Cationic
CAS Number: Mixture
Chemical Family: Emulsified complex petroleum hydrocarbon and water
Synonyms: Cationic Asphalt Emulsion, Emulsified Asphalt, Fog Seal
Product Use: Highway Paving Applications and Mixtures

HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):
Health, Acute toxicity, 5 Dermal
Health, Serious Eye Damage/Eye Irritation, 2 B

GHS Label elements, including precautionary statements

GHS Signal Word: WARNING

GHS Hazard Pictograms:

no GHS pictograms indicated for this product

GHS Hazard Statements:

H313 - May be harmful in contact with skin
H320 - Causes eye irritation

GHS Precautionary Statements:

P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Hazards not otherwise classified (HNOC) or not covered by GHS

- Inhalation: Breathing vapors, fumes, or mists may cause irritation to nasal and respiratory tract and central nervous system effects.
Skin Contact: Contact with hot emulsified asphalt can cause minor thermal burns.
Eye Contact: Contact with hot emulsified asphalt can cause thermal burns to the eyes.
Ingestion: Ingestion is not likely. Ingestion may cause thermal burns.



assistance immediately.

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
8052-42-4	25-65%	Asphalt (typical)
7732-18-5	35-55%	Water
0	<3%	Hydrochloride salt, Proprietary

Asphalt: Asphalt is a complex mixture of high molecular weight hydrocarbons produced from crude petroleum. Composition varies depending on the source of the crude and the specifications of the final product.

ACGIH: The American Conference of Governmental Industrial Hygienists recommends an exposure limit of 0.5 mg/m³ as benzene-extractable inhalable particulate (or equivalent method) to avoid irritation of the conjunctive mucous membranes. Historical information on exposure of asphalt workers used methods different than those recommended by ACGIH, so comparisons to the recommended exposure limits are not known.

FIRST AID MEASURES

- Inhalation:** If irritation occurs from inhalation overexposure, immediately remove victim from source to fresh air and seek medical attention.
- Skin Contact:** **Hot Emulsified Material:** Cool the affected body parts immediately by submerging in cold water until the material has cooled. Do not attempt to remove solidified material from burn area as this may further tissue damage. Take the victim to obtain medical assistance immediately.
- Cold Emulsified Material:** Remove cold emulsified asphalt by soaking dressing in mineral oil and place over affected area for 2-3 hours. If irritation occurs, call a physician.
- Eye Contact:** Never try to remove material with solvents. Gently flush immediately with cold water for 15 minutes. Do not attempt to remove solidified material from the eye, as this may further injury. Take victim to obtain medical assistance.
- Ingestion:** Ingestion is not likely. If large amounts are swallowed, do not induce vomiting and immediately call a physician.

FIRE FIGHTING MEASURES

- Flash Point:** Not Applicable
- Autoignition Temp:** >400°F
- LEL:** Not Applicable
- UEL:** Not Applicable

Extinguishing Media:

Foam, Carbon Dioxide, Dry Chemical, and water spray may all be suitable in extinguishing fires involving this product.

Fire Fighting Instructions:

Avoid water streams to prevent frothing. Use water spray to cool exposed surfaces.

ACCIDENTAL RELEASE MEASURES

Stop source of leak if safe to do so. Eliminate sources of ignition. Contain by diking or impounding. Absorbents can be used to contain small spills. After containment, emulsified asphalt can be collected for disposal. Advise authorities if product has entered a drainage sewer or a water source. Assure conformity with local, state, and federal government regulations for disposal.



HANDLING AND STORAGE

Handling Precautions:

When opening covers and outlet caps on storage tanks, monitor the vapor space for hydrogen sulfide levels. Use faceshield and gloves to avoid possible injury from pressurized asphalt. Long sleeved shirts and pants should be worn to minimize thermal burns. Stay upwind and vent storage tanks before unloading. Keep heating units and flues in storage tanks covered with at least 12 inches of asphalt. Do not overheat.

Empty Container Warning: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY BURN OR EXPLODE AND CAUSE INJURY OR DEATH.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Local or general exhaust required if in an enclosed area to remain below the TLV. If workplace exposure limits are exceeded, a NIOSH/MSHA-approved air-supplied respirator is advised in the absence of proper environmental engineering controls.

Personal Protective Equipment:

Eye and Face Protection: Safety glasses or chemical splash goggles with faceshield if splashing is anticipated.

Skin Protection: Oil-impervious gloves, such as Neoprene, if frequent or prolonged contact is expected. Long-sleeve shirts and long pants should be worn at all times around asphalt to prevent thermal burns.

Respiratory Protection: Respiratory protection is not normally required under normal conditions and adequate ventilation. If high vapors are expected, use a respirator approved for organic vapors. Observe respirator protection factor criteria cited in ANSI Z88.2 (1980) and other OSHA requirements found in 29 CFR 1910.134. Use air-supplied respirators or self-contained breathing apparatus for fire fighting and in confined spaces when asphalt vapor or Hydrogen Sulfide gas exceeds permissible limits.

Work/Hygienic Practices: Skin contact and the breathing of mists, fumes, or vapors should be reduced to a minimum to avoid any ill effects. Thoroughly wash exposed skin areas after work to avoid dermatitis. Consider the use of lanolin skin treatments before handling or working around asphalt mixtures.

Other Protection: Wear body-covering clothes to avoid prolonged or repeated exposure. Launder before reuse.

PETROLEUM ASPHALT:

OSHA PEL: Not established for this material.
ACGIH TLV: 0.5 mg/m³ as benzene-extractable inhalable particulate (or equivalent method)
NIOSH REL: 5.0 mg/m³ as a 15-minute ceiling limit measured as total particulates.

HYDROCHLORIDE SALT, Proprietary:

OSHA PEL: Not established for this material.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown Liquid	Odor:	Characteristic asphalt odor
Physical State:	Liquid	Solubility:	Completely
Spec Grav./Density:	0.96 - 1.05	Flash Point:	Not Applicable
Boiling Point:	212°F	Vapor Density:	>1.0
Flammability:	Aqueous, Non-Flammable	Bulk Density:	8.12 - 8.69 lb/gallon
Vapor Pressure:	1.9 E-8 psia	Auto-Ignition Temp:	>400°F
pH:	2 - 5	UFL/LFL:	Not Applicable
Molecular weight:	280		



10 STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Contact with oxidizers
Materials to Avoid:	Strong Oxidizing Agents.
Hazardous Decomposition:	Fumes, smoke, carbon monoxide, hydrogen sulfide, aldehydes, and hydrocarbons.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

International Agency for Research on Cancer Ruling

Occupational exposures to straight-run bitumens and their emissions during road paving: On the basis of an earlier meta-analysis, the IARC multi-center study and several more recent independent studies, the Working Group concluded that there was inadequate evidence in humans for the carcinogenicity of occupational exposures during road paving with straight-run bitumens. Also, there was inadequate evidence in experimental animals for the carcinogenicity of extracts and of fume condensates of this type of bitumens. However, studies of workers exposed to bitumen emissions during paving with straight-run bitumens showed mutagenic and genotoxic/cytogenetic effects in these workers. Similar effects were also observed in experimental systems under controlled conditions. This strong mechanistic evidence led to the classification of occupational exposures to straight-run bitumens and their emissions during road paving as "possibly carcinogenic to humans" (Group 2B).

Health Hazard Characterization:

Uncertainties exist in the hazard characterization of asphalt fumes by many factors including its chemical complexity, limitation of the information, the inclusion of coal tar in asphalts in past decades, other confounders and mixed results of human studies. Concise International Chemical Assessment Documents relating to asphalt and fumes can be obtained on the internet at <http://incern.org/documents/cicads/cicads/cicad58.htm>. Despite conflicting reports, the following bullet points should be noted:

- Currently classified as A4 (not classifiable as a human carcinogen). Asphalt Coal Tar Free
 - Breathing of mists, fumes, or vapors should be reduced to a minimum to avoid any ill effects.
 - Asphalt and asphalt fumes contain trace levels of polynuclear aromatic hydrocarbons that are known carcinogens.
 - Chronic health effects would not be expected as long as good hygiene and proper safety precautions are practiced and exposures are less than the TLVs/RELS.
- After using material or being around fumes, wash exposed areas thoroughly with soap and water. Showering immediately after work is a good personal hygiene practiced.

12 ECOLOGICAL INFORMATION

May cause fouling of water. May be toxic to aquatic animals. Once solidified, this product will no longer exhibit these characteristics.

13 DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state, and federal regulations. After cooling, waste or contaminated asphalt mixtures may be scooped and stockpiled for later recycling into asphalt pavement mixtures, pugmilled into cold mix, or disposed in an approved special waste, industrial waste, or construction debris landfill.

RCRA Information:
This material, if discarded as produced, is not a RCRA "listed" or "characteristic" hazardous waste. Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. It is the responsibility of the generator to fully characterize for toxicity and other RCRA parameters prior to disposal (40 CFR 261). Along with properly characterizing all waste materials, consult state and local regulations regarding proper disposal of this material.



TRANSPORT INFORMATION

This product as produced and shipped is not considered a hazardous material by the U.S. Department of Transportation.

REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Asphalt (typical) (8052-42-4) [25-65%] MASS, NRC, PA, TSCA, TXAIR

Water (7732-18-5) [35-55%] TSCA

Hydrochloride Salt, Proprietary (0) [<3%]

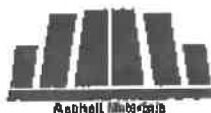
Regulatory CODE Descriptions

- MASS = MA Massachusetts Hazardous Substances List
- NRC = Nationally Recognized Carcinogens
- PA = PA Right-To-Know List of Hazardous Substances
- TSCA = Toxic Substances Control Act
- TXAIR = TX Air Contaminants with Health Effects Screening Level

OTHER INFORMATION

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

Asphalt Materials, Inc.



PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Asphalt Materials, Inc.
5400 W. 86th Street
Indianapolis, Indiana 46268

Vendor

Asphalt Materials, Inc.
5400 W. 86th Street
Indianapolis, Indiana 46268

Emergency: CHEMTREC: 800-424-9300
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Web: www.asphalt-materials.com

Emergency: CHEMTREC: 800-424-9300
Contact: Keith Toombs
Phone: 317-872-8010
Fax: 317-874-4900
Email: ktoombs@asphalt-materials.com
Web: www.asphalt-materials.com

Product Name: SS-1, SS-1h, SS-NT, SS Dilute, Dilute SS
Revision Date: 2/1/2019
SDS Number: AMI-210
Common Name: Asphalt Emulsion Anionic
CAS Number: Mixture
Chemical Family: Emulsified complex petroleum hydrocarbon and water
Synonyms: Anionic Asphalt Emulsion, Asphalt Emulsion
Product Use: Highway Paving Applications and Mixtures

HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification In accordance with 29 CFR 1910 (OSHA HCS):
Health, Acute toxicity, 5 Dermal
Health, Serious Eye Damage/Eye Irritation, 2 B

GHS Label elements, including precautionary statements

GHS Signal Word: WARNING

GHS Hazard Pictograms:

no GHS pictograms indicated for this product

GHS Hazard Statements:

H313 - May be harmful in contact with skin
H320 - Causes eye irritation

GHS Precautionary Statements:

P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Hazards not otherwise classified (HNOC) or not covered by GHS

Inhalation: Breathing vapors, fumes, or mists may cause irritation to nasal and respiratory tract and central nervous system effects. Symptoms may include labored breathing, sore throat, coughing, wheezing, headache, and nausea.
Skin Contact: Contact with hot emulsified asphalt can cause minor thermal burns. Prolonged exposure to vapors, fumes, or mists may cause irritation and redness.
Eye Contact: Contact with hot emulsified asphalt can cause thermal burns to the eyes. Prolonged exposure to vapors, fumes, or mists may cause irritation, redness, and tearing.
Ingestion: Ingestion is not likely. Ingestion may cause thermal burns. If ingestion of molten material occurs, keep victim's head below their hips to prevent asphalt from reaching the lungs. Take victim to obtain medical



assistance immediately.

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
8052-42-4	45-75%	Asphalt (typical)
7732-18-5	25-55%	Water
65997-01-5	0-5%	Tall oil, sodium salt
0	0-5%	Petroleum Emulsifier, Proprietary
68476-30-2	<5%	Fuel oil no. 2
0	<2%	Antistrip Adhesion Promoter, Proprietary

Asphalt: Asphalt is a complex mixture of high molecular weight hydrocarbons produced from crude petroleum. Composition varies depending on the source of the crude and the specifications of the final product.

ACGIH: The American Conference of Governmental Industrial Hygienists recommends an exposure limit of 0.5 mg/m³ as benzene-extractable inhalable particulate (or equivalent method) to avoid irritation of the conjunctive mucous membranes. Historical information on exposure of asphalt workers used methods different than those recommended by ACGIH, so comparisons to the recommended exposure limits are not known.

FIRST AID MEASURES

- Inhalation: If irritation occurs from inhalation overexposure, immediately remove victim from source to fresh air and seek medical attention.
- Skin Contact: Hot Emulsified Material: Cool the affected body parts immediately by submerging in cold water until the material has cooled. Do not attempt to remove solidified material from burn area as this may further tissue damage. Take the victim to obtain medical assistance immediately.

Cold Emulsified Material: Remove cold emulsified asphalt by soaking dressing in mineral oil and place over affected area for 2-3 hours. If irritation occurs, call a physician.
- Eye Contact: Never try to remove material with solvents. Gently flush immediately with cold water for 15 minutes. Do not attempt to remove solidified material from the eye, as this may further injury. Take victim to obtain medical assistance.
- Ingestion: Ingestion is not likely. If large amounts are swallowed, do not induce vomiting and immediately call a physician.

FIRE FIGHTING MEASURES

- Flash Point: Not Applicable
- Autoignition Temp: >400°F
- LEL: Not Applicable
- UEL: Not Applicable

Extinguishing Media: Foam, Carbon Dioxide, Dry Chemical, and water spray may all be suitable in extinguishing fires involving this product.

Fire Fighting Instructions: Avoid water streams to prevent frothing. Use water spray to cool exposed surfaces.

ACCIDENTAL RELEASE MEASURES

Stop source of leak if safe to do so. Eliminate sources of ignition. Contain by diking or impounding. Absorbents can be used to contain small spills. After containment, emulsified asphalt can be collected for disposal. Advise authorities if product has entered a drainage sewer or a water source. Assure conformity with local, state, and federal government regulations for disposal.



HANDLING AND STORAGE

Handling Precautions:

When opening covers and outlet caps on storage tanks, monitor the vapor space for hydrogen sulfide levels. Use faceshield and gloves to avoid possible injury from pressurized asphalt. Long sleeved shirts and pants should be worn to minimize thermal burns. Stay upwind and vent storage tanks before unloading. Keep heating units and flues in storage tanks covered with at least 12 inches of asphalt. Do not overheat.

Empty Container Warning: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY BURN OR EXPLODE AND CAUSE INJURY OR DEATH.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Local or general exhaust required if in an enclosed area to remain below the TLV. If workplace exposure limits are exceeded, a NIOSH/MSHA-approved air-supplied respirator is advised in the absence of proper environmental engineering controls.

Personal Protective Equipment:

Eye and Face Protection: Safety glasses or chemical splash goggles with faceshield if splashing is anticipated.

Skin Protection: Oil-impervious gloves, such as Neoprene, if frequent or prolonged contact is expected. Long-sleeve shirts and long pants should be worn at all times around asphalt to prevent thermal burns.

Respiratory Protection: Respiratory protection is not normally required under normal conditions and adequate ventilation. If high vapors are expected, use a respirator approved for organic vapors. Observe respirator protection factor criteria cited in ANSI Z88.2 (1980) and other OSHA requirements found in 29 CFR 1910.134. Use air-supplied respirators or self-contained breathing apparatus for fire fighting and in confined spaces when asphalt vapor or Hydrogen Sulfide gas exceeds permissible limits.

Work/Hygienic Practices: Skin contact and the breathing of mists, fumes, or vapors should be reduced to a minimum to avoid any ill effects. Thoroughly wash exposed skin areas after work to avoid dermatitis. Consider the use of lanolin skin treatments before handling or working around asphalt mixtures.

Other Protection: Wear body-covering clothes to avoid prolonged or repeated exposure. Launder before reuse.

PETROLEUM ASPHALT:

- OSHA PEL: Not established for this material.
- ACGIH TLV: 0.5 mg/m³ as benzene-extractable inhalable particulate (or equivalent method)
- NIOSH REL: 5.0 mg/m³ as a 15-minute ceiling limit measured as total particulates.

ANTISTRIP ADHESION PROMOTER, Proprietary:

- OSHA PEL: Not established for this material.

TALL OIL SODIUM SALT:

- OSHA PEL: Not established for this material.

PETROLEUM EMULSIFIER, Proprietary:

- OSHA PEL: Not established for this material.

No. 2 FUEL OIL:

- OSHA PEL: Not established for this material.



SS-1, SS-1h, SS-NT, SS Dilute, Dilute SS

SDS Number: AMI-210

Revision Date: 2/1/2019

Page 4 of 5

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown Liquid	Odor:	Characteristic asphalt odor
Physical State:	Liquid	Solubility:	Completely
Spec Grav./Density:	0.92 - 1.05	Flash Point:	Not Applicable
Boiling Point:	212°F	Vapor Density:	>1.0
Flammability:	Aqueous, Non-Flammable	Auto-Ignition Temp:	>400°F
Vapor Pressure:	1.9 E-9 psia	UFL/LFL:	Not Applicable
pH:	10		
Molecular weight:	280		

STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Contact with oxidizers
Materials to Avoid:	Strong Oxidizing Agents.
Hazardous Decomposition:	Fumes, smoke, carbon monoxide, hydrogen sulfide, aldehydes, and hydrocarbons.
Hazardous Polymerization:	Will not occur.

TOXICOLOGICAL INFORMATION

International Agency for Research on Cancer Ruling

Occupational exposures to straight-run bitumens and their emissions during road paving:
On the basis of an earlier meta-analysis, the IARC multi-center study and several more recent independent studies, the Working Group concluded that there was inadequate evidence in humans for the carcinogenicity of occupational exposures during road paving with straight-run bitumens. Also, there was inadequate evidence in experimental animals for the carcinogenicity of extracts and of fume condensates of this type of bitumens. However, studies of workers exposed to bitumen emissions during paving with straight-run bitumens showed mutagenic and genotoxic/cytogenetic effects in these workers. Similar effects were also observed in experimental systems under controlled conditions. This strong mechanistic evidence led to the classification of occupational exposures to straight-run bitumens and their emissions during road paving as "possibly carcinogenic to humans" (Group 2B).

Health Hazard Characterization:

Uncertainties exist in the hazard characterization of asphalt fumes by many factors including its chemical complexity, limitation of the information, the inclusion of coal tar in asphalts in past decades, other confounders and mixed results of human studies. Concise International Chemical Assessment Documents relating to asphalt and fumes can be obtained on the internet at <http://incchem.org/documents/cicads/cicads/cicad59.htm>. Despite conflicting reports, the following bullet points should be noted:

- Currently classified as A4 (not classifiable as a human carcinogen). Asphalt Coal Tar Free
- Breathing of mists, fumes, or vapors should be reduced to a minimum to avoid any ill effects.
- Asphalt and asphalt fumes contain trace levels of polynuclear aromatic hydrocarbons that are known carcinogens.
- Chronic health effects would not be expected as long as good hygiene and proper safety precautions are practiced and exposures are less than the TLVs/RELS.
- After using material or being around fumes, wash exposed areas thoroughly with soap and water. Showering immediately after work is a good personal hygiene practiced.

No. 2 FUEL OIL:

Lifetime skin painting studies in animals with similar distillate fuels have produced weak carcinogenic activity following prolonged and repeated exposure. Repeated dermal application has produced severe irritation and systematic toxicity in subacute toxicity studies. Some components of distillate fuels, i.e., paraffins and olefins, have been shown to produce a species-specific, sex hormonal dependent kidney lesion in male rats from repeated oral or inhalation exposure. Jet fuel and No. 1 fuel oil were found to be positive in a few mutagenicity tests while negative in the majority of others. The exact relationship between these results and human health is not known. Chronic human health effects would not be expected as long as good personal hygiene and proper safety precautions are practiced.



ECOLOGICAL INFORMATION

May cause fouling of water. May be toxic to aquatic animals. Once solidified, this product will no longer exhibit these characteristics.

DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state, and federal regulations. After cooling, waste or contaminated asphalt mixtures may be scooped and stockpiled for later recycling into asphalt pavement mixtures, pugmilled into cold mix, or disposed in an approved special waste, industrial waste, or construction debris landfill.

RCRA Information:

This material, if discarded as produced, is not a RCRA "listed" or "characteristic" hazardous waste. Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. It is the responsibility of the generator to fully characterize for toxicity and other RCRA parameters prior to disposal (40 CFR 261). Along with properly characterizing all waste materials, consult state and local regulations regarding proper disposal of this material.

TRANSPORT INFORMATION

This product as produced and shipped is not considered a hazardous material by the U.S. Department of Transportation.

REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Asphalt (typical) (8052-42-4) [45-75%] MASS, NRC, PA, TSCA, TXAIR

Water (7732-18-5) [25-55%] TSCA

Tall oil, sodium salt (65997-01-5) [0-5%] TSCA

Petroleum Emulsifier, Proprietary (0) [0-5%]

Fuel oil no. 2 (68476-30-2) [<5%] TSCA

Antistripping Adhesion Promoter, Proprietary (0) [<2%]

Regulatory CODE Descriptions

- MASS = MA Massachusetts Hazardous Substances List
- NRC = Nationally Recognized Carcinogens
- PA = PA Right-To-Know List of Hazardous Substances
- TSCA = Toxic Substances Control Act
- TXAIR = TX Air Contaminants with Health Effects Screening Level

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2023

LOGAN COUNTY, OHIO

LIQUID BITUMINOUS SPECIFICATIONS

HFRS-2P MATERIAL

The Logan County Engineer's Office plans to purchase approximately 270,000 gallons of high float rapid setting polymer modified anionic asphalt emulsion (HFRS-2P) for use in its 2023 chip seal program.

The bidder shall indicate on the bid form the type of polymer modifier (such as SBS, SBR) that is being bid. Failure to specify the modifier may result in the bid being rejected.

Enclosed is the required specification for the HFRS-2P.

The bidder shall provide a JMF of the emulsion considered for use when submitting the unit price bid form. HFRS-2P test results shall be submitted on individual batches being supplied to the county during delivery. The HFRS-2P test procedures shall follow the specified test listed on the following page. The HFRS-2P test results shall indicate that the emulsion supplied by your company achieves the project specifications.

At any time during production and delivery the County reserves the right to extract a random sample of emulsion being considered for use. Such sample will be submitted by the County to an independent laboratory for testing to confirm that the material sampled is in accordance with the project specifications.

FOG SEAL MATERIAL

The Logan County Engineer's Office plans to purchase approximately 35,000 gallons of quick breaking fog seal asphalt emulsion for use in its 2023 roadway maintenance operations.

The fog seal product (if approved) shall be supplied conforming to specification in this document. If requested product verification test results shall be provided prior to application.

HMS-2 MATERIAL

The Logan County Engineer's Office plans to purchase approximately 10,000 gallons of anionic medium to high setting asphalt emulsion for use in its 2023 roadway maintenance operations.

HMS-2 shall be supplied conforming to The Ohio DOT required specification.

MATERIAL

Use the enclosed separate Unit Price Contract form to establish unit prices for the year for the HFRS2-P and HMS-2 emulsion available from your company.

For any bid where total sum of the unit price multiplied by estimated quantity exceeds \$50,000.00 a bid guarantee will be required. The bid guarantee must be a bid bond or certified check in the amount of 5% of the total bid price (sum of estimated quantity multiplied by the unit price). Failure to submit a proper bid bond, if required, will automatically invalidate the bid.

Vendor shall supply a copy of the Safety Data Sheet (SDS) for the product, where applicable, when submitting the unit price bid form.

DELIVERY:

Delivery of all materials shall be of the type and kind and in quantities and at times as the County Engineer or his authorized assistant may so order. Delivery will be in transport quantities. Ordering will occur up to 12 hours before delivery is requested. Failure to timely deliver ordered quantities of liquid shall be cause for termination of the contract.

The bidder shall supply on his bid sheet a telephone number to be used for ordering and the name of the contact person.

**Logan County Engineer's Office
SPECIFICATION
for
HFRS-2P CHIP SEAL EMULSION**

The asphalt emulsion shall be a polymer modified HFRS-2P meeting the following specifications:

<u>Emulsion (ASTM D 244)</u>	<u>Min</u>	<u>Max</u>
Saybolt Furol Viscosity, 50°C	100	550
Storage stability, 24 hrs, % difference	--	1
Demulsibility, 35 ml of 0.02N, CaCl ₂ , %	50	--
Sieve test, (distilled water), %	--	0.1
Distillation to 190°C or, residue % solids	65	--
Oil distillate, %	--	2

Distillation Residue

Penetration, 100g, 5 sec @25°C - ASTM D 5	75	125
Float Test, sec - ASTM D 139	1200	--
Solubility in TCE, % - ASTM D 2042 or D 5546	97.5	--
Elastic Recovery, 10°C, % - ASTM D 113	58	--

**Logan County Engineer's Office
SPECIFICATION
for
FOG SEAL EMULSION
(QF40 specification provided by Asphalt Materials)**

<u>Test Parameter on Emulsion</u>	<u>Test Method</u>	<u>Specification</u>
Oil Distillate, Volume % max.	AASHTO T 59	0.5
Residue by Distillation, % min.	AASHTO T 59	35-45
Sieve, % max.	AASHTO T 59	0.3
Viscosity, Saybolt Furol, 25°C, sec	AASHTO T 72	10-100

Test on Emulsion Residue

Penetration, 25°C, 100g, 5 sec, dmm min	AASHTO T 49	55
Solubility in TCE, % min	AASHTO T 44	97.5

**2023 BID FORM
FOR
LIQUID BITUMINOUS
WARM MIX ASPHALT
HPM COLD MIX**

Revision #2, January 12, 2023

MATERIAL	BID PRICE	APPLICATION RATE	IDENTIFY POLYMER MODIFIER (HFRS-2P ONLY)
HFMS-2	\$2.55 /Gal	.40 Gal/SY	
HFRS-2P	\$2.75 /Gal	.40 Gal/SY	SBS
Fog Seal (QF-40 or Equal)	\$2.05 /Gal	.10-.15 Gal/SY	
301 Base	No Bid /Ton		
448 Type 2	No Bid /Ton		
448 Type 1	No Bid /Ton		
HPM Cold Mix	No Bid /Ton		

Company K-Tech Specialty Coatings

Address PO Box 428

Ashley, IN 46705

Telephone No. 260-587-3888 (For Orders)

Contact Person Stuart Wilson (For Orders)

Signature Kimberly Smith
Kimberly Smith COO

OHIO REVISED CODE

NON -COLLUSION AFFIDAVIT

In accordance with Title 23 United States Code, Section 112 and Ohio Revised Code, Chapter 1331 et. seq; and Sections 2921.11 and 2921.13, the bidder hereby states, under penalty of perjury and under other such penalties as the law provides, that he or his agents or employees have not entered either directly or indirectly into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal. Execution of this proposal on the signature portion thereof shall constitute also signature of this Non-Collusion Affidavit

CAMPAIGN CONTRIBUTIONS AFFIDAVIT

Ohio Revised Code Section 3517.13(I) requires that no agency or department of this state or any political subdivision shall award any contract, other than one let by competitive bidding or a contract incidental to such contract or which is by force account, for the purchase of goods costing more than five hundred dollars or services costing more than five hundred dollars to any individual, partnership, association, including, without limitation, a professional association organized under Chapter 1785 of the ORC, estate, or trust if the individual has made or the individual's spouse has made, or any partner, shareholder, administrator, executor, or trustee or the spouse of any of them has made, as an individual, within the two previous calendar years, one or more contributions totaling in excess of one thousand dollars to the holder of the public office having ultimate responsibility for the award of the contract or to the public officer's campaign committee. Furthermore, Ohio Revised Code Section 3517.13(J) requires that no agency or department of this state or any political subdivision shall award any contract, other than one let by competitive bidding or a contract incidental to such contract or which is by force account, for the purchase of goods costing more than five hundred dollars or services costing more than five hundred dollars to a corporation or business trust, except a professional association organized under Chapter 1785 of the ORC, if an owner of more than twenty per cent of the corporation or business trust or the spouse of that person has made, as an individual, within the two previous calendar years, taking into consideration only owners for all of that period, one or more contributions totaling in excess of one thousand dollars to the holder of a public office having ultimate responsibility for the award of the contract or to the public officer's campaign committee. Execution of this proposal on the signature portion thereof shall constitute also signature of this Campaign Contributions Affidavit.

**COMPETITIVE BIDDER'S
PERSONAL PROPERTY TAX AFFIDAVIT
LOGAN COUNTY, OHIO (R.C. 5719.042)**

STATE OF OHIO:

: ss:

LOGAN COUNTY :

The undersigned, being duly sworn, says that he is or represents a competitive bidder doing business in, or with Logan County, Ohio, and that: (Check appropriate lines)

He is a sole proprietorship doing business under his own name.

He is a sole proprietorship doing business under the name of _____

He is a general partner of the partnership known as _____

He is a duly authorized officer of the corporation named
K-Tech Specialty Coatings

The business address of the bidder is PO Box 428, Ashley, IN 46705

_____ ; Telephone 260-587-9113

The undersigned further says that the bidder at the time of submitting his or its bid:

Was not charged with any delinquent personal taxes in Logan County, Ohio.

Was charged with delinquent personal property taxes as follows:

YEAR	AMOUNT	PENALTY	INTEREST
20_____	\$_____	\$_____	\$_____
20_____	\$_____	\$_____	\$_____
20_____	\$_____	\$_____	\$_____

Signed:

John Baumgartner

Title:

General Manager

STATE OF ~~OHIO~~: Indiana

: ss:

~~LOGAN~~ COUNTY : Steuben

Before me, a notary, in and for said county, personally appeared

John Baumgartner (sole proprietor doing business under his own name)

(sole proprietor doing business under the name of _____)

(general partner of the Partnership known as _____)

(duly authorized officer of the Corporation name K-Tech Specialty Coatings),

who acknowledged that he is authorized in the premises and that his signing of this instrument is the free act and deed of himself or the organization which he represents.

In testimony whereof, I have hereunto subscribed my name and affixed my official seal at

Ashley, Indiana, ~~Ohio~~, this 15th day of January, 2023.

Kimberly Smith
Notary Public Kimberly Smith

Kimberly Smith
Notary Public, State of Indiana
SEAL 692311
County of DeKalb
My Commission Expires: 11-01-24

COMMISSIONERS:

_____ No delinquent taxes - file
_____ Delinquent taxes - sent to County Engineer

Clerk

**2023
PLAN-HOLDERS LIST**

LIQUID BITUMINOUS & CONCRETE ASPHALT

The Shelly Company
Attn: Brent Good
1700 Fostoria Avenue
Suite 200
PO Box 3100
Findlay, OH 45840
BGood@shellyco.com

K-Tech Specialty
P.O. Box 428
Ashley, IN 46705
jmcvicker@ktechcoatings.com

Asphalt Material, Inc.
940 N. Wynn Road
Oregon, OH 43616
rick.reynolds@asphalt-materials.com

Builders Exchange-Dayton
2077 Embury Park Road
Dayton, OH 45414
1-866-807-8300
1-937-278-3843 (Fax)
info@bxohio.com

McGraw-Hill/DodgeReports
90 Contract Street
Suite 100-A
Lexington, KY 40505
800-393-6343 (Phone)
800-625-3488 (Fax)
dodge_repcmw@mcgraw-hill.com

Ohio Construction News
7261 Engle Road, Suite 304
Cleveland, OH 44130
800-869-4700 (Phone)
800-229-4626 (Fax)
annie@cncnewsonline.com

NOTICE FOR BIDS

Notice is hereby given that bids will be received at the office of the Logan County Commissioner's, 117 E. Columbus Avenue, Suite 100, Bellefontaine, Ohio 43311 until 10:00 A.M., Ohio Standard Time on Thursday January 19, 2023 for the furnishing of various grades of **LIQUID BITUMINOUS MATERIAL AND CONCRETE ASPHALT** products for the general construction and maintenance of Logan County Highways during the year of 2023 according to specifications on file in the Logan County Engineer's Office.

Bids are to be submitted on forms available at the Engineer's Office, 1991 C.R. 13, Bellefontaine, Ohio, 43311, 1-937-592-2791.

Bid prices are to be firm fixed price for one year.

Bids will be awarded to lowest and best bidder.

Bidders must comply with the provisions of The Americans with Disabilities Act of 1990.

Bidders must be able to provide a road-worthy Nurse Tank if needed.

The Logan County Commissioners' reserve the right to reject any or all bids and to waive any defects in the bids.

The Notice to Bidders is posted on the Internet and may be viewed on Logan County Engineer's web page at: www.lceo.us.

By order of the Board of Commissioners of Logan County, Ohio.

DeDe Doss
Clerk/Admin.

Posted: January 5, 2023
Advertised: January 5, 2023 and January 12, 2023

2023

LOGAN COUNTY, OHIO

LIQUID BITUMINOUS SPECIFICATIONS

HFRS-2P MATERIAL

The Logan County Engineer's Office plans to purchase approximately 270,000 gallons of high float rapid setting polymer modified anionic asphalt emulsion (HFRS-2P) for use in its 2023 chip seal program.

The bidder shall indicate on the bid form the type of polymer modifier (such as SBS, SBR) that is being bid. Failure to specify the modifier may result in the bid being rejected.

Enclosed is the required specification for the HFRS-2P.

The bidder shall provide a JMF of the emulsion considered for use when submitting the unit price bid form. HFRS-2P test results shall be submitted on individual batches being supplied to the county during delivery. The HFRS-2P test procedures shall follow the specified test listed on the following page. The HFRS-2P test results shall indicate that the emulsion supplied by your company achieves the project specifications.

At any time during production and delivery the County reserves the right to extract a random sample of emulsion being considered for use. Such sample will be submitted by the County to an independent laboratory for testing to confirm that the material sampled is in accordance with the project specifications.

FOG SEAL MATERIAL

The Logan County Engineer's Office plans to purchase approximately 35,000 gallons of quick breaking fog seal asphalt emulsion for use in its 2023 roadway maintenance operations.

The fog seal product (if approved) shall be supplied conforming to specification in this document. If requested product verification test results shall be provided prior to application.

HMS-2 MATERIAL

The Logan County Engineer's Office plans to purchase approximately 10,000 gallons of anionic medium to high setting asphalt emulsion for use in its 2023 roadway maintenance operations.

HMS-2 shall be supplied conforming to The Ohio DOT required specification.

MATERIAL

Use the enclosed separate Unit Price Contract form to establish unit prices for the year for the HFRS2-P and HMS-2 emulsion available from your company.

For any bid where total sum of the unit price multiplied by estimated quantity exceeds \$50,000.00 a bid guarantee will be required. The bid guarantee must be a bid bond or certified check in the amount of 5% of the total bid price (sum of estimated quantity multiplied by the unit price). Failure to submit a proper bid bond, if required, will automatically invalidate the bid.

Vendor shall supply a copy of the Safety Data Sheet (SDS) for the product, where applicable, when submitting the unit price bid form.

DELIVERY:

Delivery of all materials shall be of the type and kind and in quantities and at times as the County Engineer or his authorized assistant may so order. Delivery will be in transport quantities. Ordering will occur up to 12 hours before delivery is requested. Failure to timely deliver ordered quantities of liquid shall be cause for termination of the contract.

The bidder shall supply on his bid sheet a telephone number to be used for ordering and the name of the contact person.

Logan County Engineer's Office
SPECIFICATION
for
HFRS-2P CHIP SEAL EMULSION

The asphalt emulsion shall be a polymer modified HFRS-2P meeting the following specifications:

<u>Emulsion (ASTM D 244)</u>	<u>Min</u>	<u>Max</u>
Saybolt Furol Viscosity, 50°C	100	550
Storage stability, 24 hrs, % difference	--	1
Demulsibility, 35 ml of 0.02N, CaCl ₂ , %	50	--
Sieve test, (distilled water), %	--	0.1
Distillation to 190°C or, residue % solids	65	--
Oil distillate, %	--	2

Distillation Residue

Penetration, 100g, 5 sec @25°C - ASTM D 5	75	125
Float Test, sec - ASTM D 139	1200	--
Solubility in TCE, % - ASTM D 2042 or D 5548	97.5	--
Elastic Recovery, 10°C, % - ASTM D 113	58	--

Logan County Engineer's Office
SPECIFICATION
for
FOG SEAL EMULSION
(QF40 specification provided by Asphalt Materials)

<u>Test Parameter on Emulsion</u>	<u>Test Method</u>	<u>Specification</u>
Oil Distillate, Volume % max.	AASHTO T 59	0.5
Residue by Distillation, % min.	AASHTO T 59	35-45
Sieve, % max.	AASHTO T 59	0.3
Viscosity, Saybolt Furol, 25°C, sec	AASHTO T 72	10-100

Test on Emulsion Residue

Penetration, 25°C, 100g, 5 sec, dmm min	AASHTO T 49	55
Solubility in TCE, % min	AASHTO T 44	97.5

**2023 BID FORM
FOR
LIQUID BITUMINOUS
WARM MIX ASPHALT
HPM COLD MIX**

MATERIAL	BID PRICE	APPLICATION RATE	IDENTIFY POLYMER MODIFIER (HFRS-2P ONLY)
HMS-2	No Bid /Gal	Gal/SY	
HFRS-2P	No Bid /Gal	Gal/SY	
Fog Seal (QF-40 or Equal)	No Bid /Gal	Gal/SY	
301 Base	\$72.00 /Ton		
448 Type 2	\$75.00 /Ton		
448 Type 1	\$85.00 /Ton		
HPM Cold Mix	No Bid /Ton		

Company Shelly Material, Inc.

Address 1700 Fostoria Ave., Ste. 200, PO Box 3100

Findlay, OH 45840

Telephone No. 419 - 466 - 5387 (For Orders)

Contact Person Scott Rychener (For Orders)

Signature 

Nathan Mathew, Sales Manager

OHIO REVISED CODE

NON-COLLUSION AFFIDAVIT

In accordance with Title 23 United States Code, Section 112 and Ohio Revised Code, Chapter 1331 et. seq; and Sections 2921.11 and 2921.13, the bidder hereby states, under penalty of perjury and under other such penalties as the law provides, that he or his agents or employees have not entered either directly or indirectly into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal. Execution of this proposal on the signature portion thereof shall constitute also signature of this Non-Collusion Affidavit

CAMPAIGN CONTRIBUTIONS AFFIDAVIT

Ohio Revised Code Section 3517.13(I) requires that no agency or department of this state or any political subdivision shall award any contract, other than one let by competitive bidding or a contract incidental to such contract or which is by force account, for the purchase of goods costing more than five hundred dollars or services costing more than five hundred dollars to any individual, partnership, association, including, without limitation, a professional association organized under Chapter 1785 of the ORC, estate, or trust if the individual has made or the individual's spouse has made, or any partner, shareholder, administrator, executor, or trustee or the spouse of any of them has made, as an individual, within the two previous calendar years, one or more contributions totaling in excess of one thousand dollars to the holder of the public office having ultimate responsibility for the award of the contract or to the public officer's campaign committee. Furthermore, Ohio Revised Code Section 3517.13(J) requires that no agency or department of this state or any political subdivision shall award any contract, other than one let by competitive bidding or a contract incidental to such contract or which is by force account, for the purchase of goods costing more than five hundred dollars or services costing more than five hundred dollars to a corporation or business trust, except a professional association organized under Chapter 1785 of the ORC, if an owner of more than twenty per cent of the corporation or business trust or the spouse of that person has made, as an individual, within the two previous calendar years, taking into consideration only owners for all of that period, one or more contributions totaling in excess of one thousand dollars to the holder of a public office having ultimate responsibility for the award of the contract or to the public officer's campaign committee. Execution of this proposal on the signature portion thereof shall constitute also signature of this Campaign Contributions Affidavit.

**COMPETITIVE BIDDER'S
PERSONAL PROPERTY TAX AFFIDAVIT
LOGAN COUNTY, OHIO (R.C. 5719.042)**

STATE OF OHIO:

: ss:

LOGAN COUNTY :

The undersigned, being duly sworn, says that he is or represents a competitive bidder doing business in, or with Logan County, Ohio; and that: (Check appropriate lines)

He is a sole proprietorship doing business under his own name.

He is a sole proprietorship doing business under the name of _____

He is a general partner of the partnership known as _____

He is a duly authorized officer of the corporation named
Shelly Material, Inc.

The business address of the bidder is 1700 Fostoria Ave., Ste. 200, PO Box 3100
Findlay, OH 45840 ; Telephone 419 - 422 - 8854

The undersigned further says that the bidder at the time of submitting his or its bid:

Was not charged with any delinquent personal taxes in Logan County, Ohio.

Was charged with delinquent personal property taxes as follows:

YEAR	AMOUNT	PENALTY	INTEREST
20_____	\$_____	\$_____	\$_____
20_____	\$_____	\$_____	\$_____
20_____	\$_____	\$_____	\$_____

Signed: 

Title: Nathan Mathew, Sales Manager

STATE OF OHIO:

: ss:

LOGAN COUNTY:

Before me, a notary, in and for said county, personally appeared

N/A (sole proprietor doing business under his own name)

(sole proprietor doing business under the name of N/A)

(general partner of the Partnership known as N/A)

(duly authorized officer of the Corporation name Nathan Mathew of Shelly Materials, Inc.),

who acknowledged that he is authorized in the premises and that his signing of this instrument is the free act and deed of himself or the organization which he represents.

In testimony whereof, I have hereunto subscribed my name and affixed my official seal at

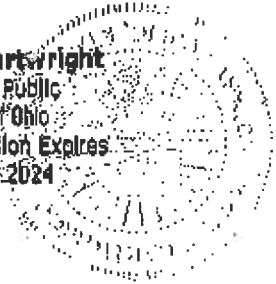
Findlay, Ohio, this 11th day of January, 2023.

Kyle E. Cartwright
Notary Public

My Commission Exp. 7-4-24



Kyle E Cartwright
Notary Public
State of Ohio
My Commission Expires
July 4, 2024



COMMISSIONERS:

No delinquent taxes - file
 Delinquent taxes - sent to County Engineer

Clerk

**2023
PLAN-HOLDERS LIST**

LIQUID BITUMINOUS & CONCRETE ASPHALT

The Shelly Company
Attn: Brent Good
1700 Fostoria Avenue
Suite 200
PO Box 3100
Findlay, OH 45840
BGood@shellyco.com

K-Tech Specialty
P.O. Box 428
Ashley, IN 46705
jmckicker@ktechcoatings.com

Asphalt Material, Inc.
940 N. Wynn Road
Oregon, OH 43616
rick.reynolds@asphalt-materials.com

Builders Exchange-Dayton
2077 Embury Park Road
Dayton, OH 45414
1-866-907-6300
1-937-278-3843 (Fax)
info@bxohio.com

McGraw-Hill/DodgeReports
90 Contract Street
Suite 100-A
Lexington, KY 40505
800-393-6343 (Phone)
800-625-3488 (Fax)
dodge_reocmw@mcgraw-hill.com

Ohio Construction News
7261 Engle Road, Suite 304
Cleveland, OH 44130
800-989-4700 (Phone)
800-229-4626 (Fax)
annis@cncnewsonline.com



BID BOND

Bond Number: 8205159-014137

KNOW ALL MEN BY THESE PRESENTS, that we The Shelly Company, 1700 Fostoria Ave., Ste. 200, PO Box 3100, Findlay, Ohio 45840

as Principal, (the "Principal"), and LIBERTY MUTUAL INSURANCE COMPANY, a mutual company duly organized under the laws of the Commonwealth of Massachusetts as Surety, (the "Surety"), are held and firmly bound unto Logan County Engineers

as Obligee, (the "Obligee"), in the penal sum of Fifty Thousand

Dollars (\$50,000.00),

for the payment of which sum well and truly to be made, the Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for 2023 General Construction and Maintenance of Logan County Highways - Asphalt Bid

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal within the period specified therein, or, if no period be specified, within sixty (60) days after opening, and the Principal shall enter into a contract with the Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or contract documents, or in the event of the failure of the Principal to enter into such contract and give such bond or bonds, if the Principal shall pay to the Obligee the difference in money not to exceed the penal sum hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. In no event shall the liability hereunder exceed the penal sum hereof.

DATED as of this 9th day of January, 2023.

The Shelly Company

Principal

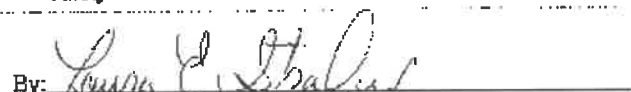
(Seal)

WITNESS/ATTEST:

By: 
Name: T.A. Oberst
Title: Vice President

LIBERTY MUTUAL INSURANCE COMPANY (Seal)

Surety

By: 
Laura E. Straley, Attorney-in-Fact



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: 8208190-014137

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, consult and appoint, Kimberly L. Stevens, Laura E. Straley

all of the city of Findlay state of OH each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all bid bonds on behalf of The Shelly Company, and the execution of such bid bonds, in pursuance of these presents, shall be as binding upon the Company as if they had been duly signed by the president and attested by the secretary of the Company in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 21st day of June, 2022.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: David M. Carey, Assistant Secretary

State of PENNSYLVANIA
County of MONTGOMERY

On this 21st day of June, 2022, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1128044
Member, Pennsylvania Association of Notaries

By: Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 9th day of January, 2023.



By: Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-810-832-8240 between 9:00 am and 4:30 pm EST on any business day.

Office of Risk Assessment
50 West Town Street
Third Floor - Suite 300
Columbus, Ohio 43215
(614)644-2658
Fax(614)644-3256
www.insurance.ohio.gov

Ohio Department of Insurance

Mike DeWine - Governor
Judith French - Director



Certificate of Compliance

Issued 03/07/2022

Effective 04/02/2022

Expires 04/01/2023

I, Judith French, hereby certify that I am the Director of Insurance in the State of Ohio and have supervision of insurance business in said State and as such I hereby certify that

LIBERTY MUTUAL INSURANCE COMPANY

of Massachusetts is duly organized under the laws of this State and is authorized to transact the business of insurance under the following section(s) of the Ohio Revised Code:

Section 3929.01 (A)

Accident & Health	Guaranteed Renewable A & H
Aircraft	Inland Marine
Allied Lines	Medical Malpractice
Boiler & Machinery	Multiple Peril - Commercial
Burglary & Theft	Multiple Peril - Farmowners
Collectively Renewable A & H	Multiple Peril - Homeowners
Commercial Auto - Liability	Noncancellable A & H
Commercial Auto - No Fault	Nonrenew- Stated Reasons (A&H)
Commercial Auto - Physical Damage	Ocean Marine
Credit	Other Accident only
Credit Accident & Health	Other Liability
Earthquake	Private Passenger Auto - Liability
Fidelity	Private Passenger Auto - No Fault
Financial Guaranty	Private Passenger Auto - Physical Damage
Fire	Surety
Glass	Workers Compensation
Group Accident & Health	

LIBERTY MUTUAL INSURANCE COMPANY certified in its annual statement to this Department as of December 31, 2021 that it has admitted assets in the amount of \$65,530,745,401, liabilities in the amount of \$43,481,129,334, and surplus of at least \$22,049,616,067.

IN WITNESS WHEREOF, I have hereunto subscribed my name and caused my seal to be affixed at Columbus, Ohio, this day and date.

Judith L. French

Judith French, Director

