



**State of New Mexico  
General Services Department  
Purchasing Division**

**Price Agreement Amendment**

**Awarded Vendor:**

**0000050893**

**Pavement Sealants & Supply, Inc.**

**PO Box 9703**

**Albuquerque, NM 87119**

**Email: steve@pavementsealants.net**

**Telephone No.: (505) 264-2577**

Number: **90-805-18-16729**

Amendment No.: **Two**

Term: **March 11, 2019 – March 10, 2022**

**Ship To:**

**Various Locations**

Procurement Specialist: **Mark Lujan**

Telephone No.: **505-827-0564**

Email: **Mark.Lujan@state.nm.us**

**Invoice:**

**New Mexico Department of Transportation**

**Various Locations**

**For questions regarding this contract please contact:**

**Angela Martinez (505) 470-7940**

**Title: Crack Seal**

**This amendment is to be attached to the respective Price Agreement and become a part thereof.**

**In accordance with Price Agreement provisions, and by mutual agreement of all parties, this Price Agreement is extended from March 11, 2021 to March 10, 2022 at the same price, terms and conditions.**

**Except as modified by this amendment, the provisions of the Price Agreement shall remain in full force and effect.**

**Accepted for the State of New Mexico**

*Valerie Paulk*

Date: 1/15/2021

Mark Hayden, New Mexico State Purchasing Agent

x This Agreement was signed on behalf of the State Purchasing Agent



State of New Mexico  
General Services Department  
Purchasing Division

Price Agreement Amendment

Awarded Vendor  
0000050893  
Pavement Sealants & Supply, Inc.  
P.O. Box 9703  
Albuquerque, NM 87119


Telephone No. (505) 264-2577

Price Agreement Number: 90-805-18-16729

Price Agreement Amendment No.: One

Term: March 11, 2019 – March 10, 2021

Ship To:  
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Procurement Specialist: Mark Lujan 

Telephone No.: (505) 827-0564

Email: Mark.Lujan@state.nm.us

Invoice:  
New Mexico Department of Transportation  
Various Locations

For questions regarding this Price Agreement please  
contact: Angela Martinez – (505) 570-7940

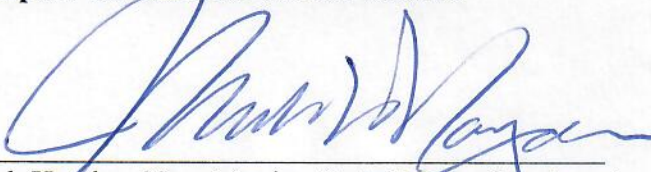
Title: **Crack Seal**

This Price Agreement Amendment is to be attached to the respective Price Agreement and become a part thereof.

In accordance with Price Agreement provisions, and by mutual agreement of all parties, this Price Agreement is extended from March 11, 2020 to March 10, 2021 at the same price, terms and conditions.

Except as modified by this amendment, the provisions of the Price Agreement shall remain in full force and effect.

Accepted for the State of New Mexico



Mark Hayden, New Mexico State Purchasing Agent

Date: 03/03/20



State of New Mexico  
General Services Department

Price Agreement

**Awarded Vendor**  
**0000050893**  
**Pavement Sealants & Supply, Inc.**  
**P.O. Box 9703**  
**Albuquerque, NM 87119**

**Telephone No. (505) 264-2577**


Price Agreement Number: 90-805-18-16729

Payment Terms: Net 30

F.O.B.: Destination

Delivery: As Requested

**Ship To:**  
**Various Locations**

Procurement Specialist: Mark Lujan 

Telephone No.: (505) 827-0564

Email: Mark.Lujan@state.nm.us

**Invoice:**  
**New Mexico Department of Transportation**  
**Various Locations**

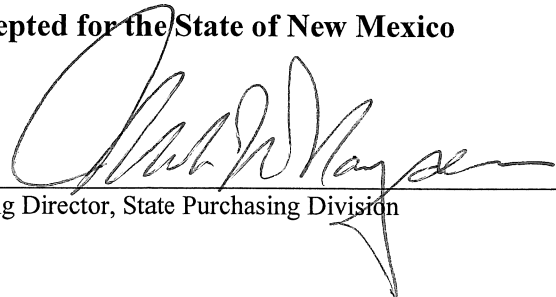
**For questions regarding this contract please contact:**  
**Angela Martinez (505) 570-7940**

Title: Crack Seal

Term: March 11, 2019 – March 10, 2020

This Price Agreement is made subject to the “terms and conditions” shown on the reverse side of this page, and as indicated in this Price Agreement.

Accepted for the State of New Mexico

  
\_\_\_\_\_  
Acting Director, State Purchasing Division

Date: 03/11/19



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General Services Department  
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**Terms and Conditions**

(Unless otherwise specified)

1. **General:** When the State Purchasing Agent or his/her designee issues a purchase document in response to the Vendor's bid, a binding contract is created.
2. **Variation in Quantity:** No variation in the quantity of any item called for by this order will be accepted unless such variation has been caused by conditions of loading, shipping, packing or allowances in manufacturing process and then only to the extent, if any, specified in this order.
3. **Assignment:**
  - a. Neither the order, nor any interest therein, nor any claim thereunder, shall be assigned or transferred by the Vendor, except as set forth in Subparagraph 3b or as expressly authorized in writing by the State Purchasing Agent or his/her designee. No such assignment or transfer shall relieve the Vendor from the obligations and liabilities under this order.
  - b. Vendor agrees that any and all claims for overcharge resulting from antitrust violations which are borne by the State as to goods, services, and materials purchased in connection with this bid are hereby assigned to the State.
4. **State Furnished Property:** State furnished property shall be returned to the State upon request in the same condition as received except for ordinary wear, tear and modifications ordered hereunder.
5. **Discounts:** Prompt payment discounts will not be considered in computing the low bid. Discounts for payment within twenty (20) days will be considered after the award of the contract. Discounted time will be computed from the date of receipt of the merchandise invoice, whichever is later.
6. **Inspection:** Final inspection and acceptance will be made at the destination. Supplies rejected at the destination for nonconformance with specifications shall be removed at the Vendor's risk and expense, promptly after notice of rejection.
7. **Inspection of Plant:** The State Purchasing Agent or his/her designee may inspect, at any reasonable time, the part of the Contractor's, or any subcontractor's plant or place of business, which is related to the performance of this contract.
8. **Commercial Warranty:** The Vendor agrees that the supplies or services furnished under this order shall be covered by the most favorable commercial warranties the Vendor gives for such to any customer for such supplies or services. The rights and remedies provided herein shall extend to the State and are in addition to and do not limit any rights afforded to the State by any other clause of this order. **Vendor agrees not to disclaim warranties of fitness for a particular purpose of merchantability.**
9. **Taxes:** The unit price shall exclude all state taxes.
10. **Packing, Shipping and Invoicing:**
  - a. The State's purchasing document number and the Vendor's name, user's name and location shall be shown on each packing and delivery ticket, package, bill of lading and other correspondence in connection with the shipments. The user's count will be accepted by the Vendor as final and conclusive on all shipments not accompanied by a packing ticket.
  - b. The Vendor's invoice shall be submitted duly certified and shall contain the following information: order number, description of supplies or services, quantities, unit price and extended totals. Separate invoices shall be rendered for each and every complete shipment.
  - c. Invoices must be submitted to the using agency and NOT the State Purchasing Agent.
11. **Default:** The State reserves the right to cancel all or any part of this order without cost to the State, if the Vendor fails to meet the provisions of this order and, except as otherwise provided herein, to hold the Vendor liable for any excess cost occasioned by the State due to the Vendor's default. The Vendor shall not be liable for any excess costs if failure to perform the order arises out of causes beyond the control and without the fault or negligence of the Vendor, such causes include but are not restricted to, acts of God or the public enemy, acts of the State or Federal Government,

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fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, unusually severe weather and defaults of subcontractors due to any of the above, unless the State shall determine that the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the Vendor to meet the required delivery scheduled. The rights of the State provided in this paragraph shall not be exclusive and are in addition to any other rights now being provided by law or under this order.

**12. Non-Collusion:** In signing this bid the Vendor certifies he/she has not, either directly or indirectly, entered into action in restraint of free competitive bidding in connection with this offer submitted to the State Purchasing Agent or his/her designee.

**13. Nondiscrimination:** Vendor doing business with the State of New Mexico must be in compliance with the Federal Civil Rights Act of 1964 and Title VII of the Act (Rev. 1979) and the Americans with Disabilities Act of 1990 (Public Law 101-336).

**14. The Procurement Code:** Sections 13-1-28 through 13-1-199 NMSA 1978, imposes civil and criminal penalties for its violation. In addition the New Mexico criminal statutes impose felony penalties for bribes, gratuities and kickbacks.

**15. Items:** All bid items are to be NEW and of most current production, unless otherwise specified.

**16. Payment for Purchases:** Except as otherwise agreed to: late payment charges may be assessed against the user state agency in the amount and under the conditions set forth in Section 13-1-158 NMSA 1978.

**17. Workers' Compensation:** The Contractor agrees to comply with state laws and rules pertaining to Workers' Compensation benefits for its employees. If the Contractor fails to comply with Workers' Compensation Act and applicable rules when required to do so, this Agreement may be terminated by the contracting agency.

**18. Submission of Bid:** Bids must be submitted in a sealed envelope with the bid number and opening date clearly indicated on the bottom left hand side of the front of the envelope. Failure to label bid envelope will necessitate the premature opening of the bid in order to identify the bid number.

**19. Contractor Personnel:** Personnel proposed in the Contractor's written bid to the Procuring Agency are considered material to any work performed under this Price Agreement. Once a Purchase Order or contract has been executed, no changes of personnel will be made by the Contractor without prior written consent of the Procuring Agency. Replacement of any Contractor personnel, if approved, shall be with personnel of equal ability, experience, and qualifications. The Contractor will be responsible for any expenses incurred in familiarizing the replacement personnel to insure their being productive to the project immediately upon receiving assignments. Approval of replacement personnel shall not be unreasonably withheld. The Procuring Agency shall retain the right to request the removal of any of the Contractor's personnel at any time.

**20. Subcontracting:** The Contractor shall not subcontract any portion of the Price Agreement without the prior written approval of the Procuring Agency. No such subcontracting shall relieve the Contractor from its obligations and liabilities under this Price Agreement, nor shall any subcontracting obligate payment from the Agency.

**21. Records and Audit:** The Contractor shall maintain detailed time and expenditure records that indicate the date, time, nature, and cost of services rendered during this Price Agreement's term and effect, and retain them for a period of three (3) years from the date of final payment under this Price Agreement. The records shall be subject to inspection by the Agency, State Purchasing Division, Department of Finance and Administration, and for Information Technology contracts, State Chief Information Officer. The Agency shall have the right to audit billings, both before and after payment. Payment for services under this Price Agreement shall not foreclose the right of the Agency to recover excessive or illegal payments.

**22. Subcontracts:** The foregoing requirements for Contractor Personnel, Subcontracting, and Audit shall be inserted into all subcontracts from the prime contractor to the subcontractor.



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**New Mexico Employees Health Coverage**

A. If Contractor has, or grows to, six (6) or more employees who work, or who are expected to work, an average of at least 20 hours per week over a six (6) month period during the term of the contract, Contractor certifies, by signing this agreement, to have in place, and agrees to maintain for the term of the contract, health insurance for its New Mexico Employees and offer that health insurance to its New Mexico Employees if the expected annual value in the aggregate of any and all contracts between Contractor and the State exceeds \$250,000 dollars.

B. Contractor agrees to maintain a record of the number of its New Mexico Employees who have (a) accepted health insurance; (b) declined health insurance due to other health insurance coverage already in place; or (c) declined health insurance for other reasons. These records are subject to review and audit by a representative of the state.

C. Contractor agrees to advise all of its New Mexico Employees of the availability of State publicly financed health care coverage programs by providing each of its New Mexico Employees with, as a minimum, the following web site link to additional information: <http://www.insurenwmxico.state.nm.us/>.

D. For purposes of this Paragraph, the following terms have the following meanings:

- (1) "New Mexico Employee" means any resident of the State of New Mexico employed by Contractor who performs the majority of the employee's work for Contractor within the State of New Mexico, regardless of the location of Contractor's office or offices; and
- (2) "offer" means to make available, without unreasonable restriction, enrollment in one or more health coverage plans and to actively seek and encourage participation in order to achieve the goals of Executive Order 2007-049. This could include State publicly financed public health coverage programs such as *Insure New Mexico!*

**New Mexico Pay Equity Initiative**

Contractor agrees, if it has ten (10) or more New Mexico employees OR eight (8) or more employees in the same job classification, at any time during the term of this contract, to complete and submit the PE10-249 form on the annual anniversary of the initial report submittal for contracts up to one (1) year in duration. If contractor has (250) or more employees, contractor must complete and submit the PE250 form on the annual anniversary of the initial report submittal for contracts that are up to one (1) year in duration. For contracts that extend beyond one (1) calendar year, or are extended beyond one (1) calendar year, contractor also agrees to complete and submit the PE10-249 or PE250 form, whichever is applicable, within thirty (30) days of the annual contract anniversary date of the initial submittal date or, if more than 180 days has elapsed since submittal of the last report, at the completion of the contract, whichever comes first. Should contractor not meet the size requirement for reporting at contract award but subsequently grows such that they meet or exceed the size requirement for reporting, contractor agrees to provide the required report within ninety (90) days of meeting or exceeding the size requirement. That submittal date shall serve as the basis for submittals required thereafter.

Contractor also agrees to levy this requirement on any subcontractor(s) performing more than 10% of the dollar value of this contract if said subcontractor(s) meets, or grows to meet, the stated employee size thresholds during the term of the contract. Contractor further agrees that, should one or more subcontractor not meet the size requirement for reporting at contract award but subsequently grows such that they meet or exceed the size requirement for reporting, contractor will submit the required report, for each such subcontractor, within ninety (90) days of that subcontractor meeting or exceeding the size requirement. Subsequent report submittals, on behalf of each such subcontractor, shall be due on the annual anniversary of the initial report submittal. Contractor shall submit the required form(s) to the State Purchasing Division of the General Services Department, and other departments as may be determined, on behalf of the applicable subcontractor(s) in accordance with the schedule contained in this paragraph. Contractor acknowledges that this subcontractor requirement applies even though contractor itself may not meet the size requirement for reporting and be required to report it self.

Two (2) copies of the Pay Equity Worksheet shall be submitted prior to Award by the prospective Awarded Vendor.

The PE10-249 and PE250 worksheet is available at the following website:  
[http://www.generalservices.state.nm.us/statepurchasing/Pay\\_Equity.aspx](http://www.generalservices.state.nm.us/statepurchasing/Pay_Equity.aspx)

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**Department Price Agreement**

**Article I – Statement of Work**

Under the terms and conditions of this Price Agreement, the using agency may issue orders for items and/or services described herein.

The terms and conditions of this Price Agreement shall form a part of each order issued hereunder.

The items and/or services to be ordered shall be listed under Article IX – Price Schedule. All orders issued hereunder will bear both an order number and this Price Agreement number. It is understood that no guarantee or warranty is made or implied by either the New Mexico State Purchasing Agent or the user that any order for any definite quantity will be issued under this Price Agreement. The Contractor is required to accept the order and furnish the items and/or services in accordance with the articles contained hereunder for the quantity of each order issued.

**Article II – Term**

The term of this Price Agreement for issuance of orders shall be as indicated in specifications.

**Article III – Specifications**

Items and/or services furnished hereunder shall conform to the requirements of specifications and/or drawings applicable to items listed under Article IX - Price Schedule. Orders issued against this schedule will show the applicable price agreement item(s), number(s), and price(s); however they may not describe the item(s) fully.

**Article IV – Shipping and Billing Instructions**

Contractor shall ship in accordance with the instructions of this form. Shipment shall be made only against specific orders which the user may place with the contractor during the term indicated in Article II – Term. The Contractor shall enclose a packing list with each shipment listing the order number, price agreement number and the commercial parts number (if any) for each item. Delivery shall be made as indicated on page 1. If vendor is unable to meet stated delivery the State Purchasing Agent must be notified.

**Article V - Termination**

The Agency may terminate this Agreement for convenience or cause. The Contractor may only terminate this Agreement based upon the Agency's uncured, material breach of this Agreement. Contractor shall give Agency written notice of termination at least thirty (30) days prior to the intended date of termination, which notice shall (i) identify all the Agency's material breaches of this Agreement upon which the termination is based and (ii) state what the Agency must do to cure such material breaches. Contractor's notice of termination shall only be effective (i) if the Agency does not cure all material breaches within the thirty (30) day notice period or (ii) in the case of material breaches that cannot be cured within thirty (30) days, the Agency does not, within the thirty (30) day notice period, notify the Contractor of its intent to cure and begin with due diligence to cure the material breach. Termination of this Contract, however, shall not affect any outstanding orders. This provision is not exclusive and shall not waive other rights and remedies afforded either party in the event of breach of contract or default. In such instances the contract may be cancelled effective immediately.

**Article VI – Amendment**

This Price Agreement may be amended by mutual agreement of the New Mexico State Purchasing Agent or his/her designee and the Contractor upon written notice by either party to the other. An amendment to this Price Agreement shall not affect any outstanding orders issued prior to the effective date of the amendment as mutually agreed upon, and as published by the New Mexico State Purchasing Agent or his/her designee. Amendments affecting price adjustments and/or the extension of a price agreement expiration date are not allowed unless specifically provided for in the bid and price agreement specifications.

**Article VII – Issuance of Orders**

Only written signed orders are valid under this Price Agreement.

**Article VIII – Packing (if applicable)**

Packing shall be in conformance with standard commercial practices.

**Article IX – Price Schedule**

Prices as listed in the price schedule hereto attached are firm.

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**Purpose:**

To establish a Price Agreement for Hot Applied, Self-Adhesive, Bituminous based crack sealant materials for asphalt and concrete pavements, and the rental of preparation and application equipment for the New Mexico Department of Transportation (NMDOT), hereinafter referred to as "Department".

**Term:**

The term of this agreement shall be for one (1) year from date of award with the option to extend for a period of three (3) additional years, on a year-by-year basis, by mutual agreement of all parties and the approval of the State Purchasing Director at the same price, terms and conditions. This agreement shall not exceed four (4) years.

**Bidding Information:**

Quantities provided are estimate quantities for bidding purposes only; the NMDOT reserves the right to place orders on more or less depending on the needs of the NMDOT. Awarded vendor should maintain some stock for ready shipment. Vendors are required to ensure that the products used in conjunction with this Price Agreement have been submitted and approved through the NMDOT Product Evaluation Program. Any Questions regarding the NMDOT Product Evaluation Program shall be directed to Product Evaluation Coordinator, Jessica Lopez, [jessicam.lopez@state.nm.us](mailto:jessicam.lopez@state.nm.us).

In addition, vendors must submit the name of their product to be included in the bid package and shall provide the State Purchasing Division with product literature to include but not be limited to product specifications, composition and manufacturers recommendations. All applicable sections of the New Mexico State Highway and Transportation Departments Current Edition Interim Specifications Book shall apply and be considered as integral part of these specifications.

**Method of Award:**

This Price Agreement is established as a source and convenience of the New Mexico Department of Transportation (NMDOT). It is the responsibility of the NMDOT to utilize this Price Agreement to the best interests of the State of New Mexico. Multiple awards may be made to serve the best interest of the NMDOT. Successful vendor(s) will provide the New Mexico Department of Transportation Districts using this Price Agreement with a quantity report for accurate future use. Bidders responding to this invitation to bid are requested to submit descriptive literature. Awarded vendor will ship Material Safety Data Sheets with each shipment. Award will be based on cost of materials meeting specifications listed below and the rental rates of required equipment. The NMDOT reserves the right to require samples be furnished by any prospective bidder prior to award of Price Agreement.

**Product Specifications:**

Standard Specification For Joint Sealants, Hot-Poured, Elastomeric-Type, For Asphalt Pavements and Portland Cement Concrete Pavements AASHTO (American Association of State Highway and Transportation Officials) Designation: M 324-08 (ASTM Designation: D 3406-95) <http://www.transportation.org>

All applicable sections of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction current edition and current Special Provisions and Supplemental Specifications shall apply and be considered an integral part of these specifications.

All material shall meet the following specifications as set forth in the New Mexico State Department of Transportation Standard Specifications for Highway and Bridge Construction, current edition and current special provisions and supplemental specifications:



### **Section 452.3 Material Requirements**

This specification covers an Elastomeric Type of one-component, Hot-Applied, Concrete Joint Sealant resistant to weathering, for use in sealing joints and cracks in Asphalt pavement and Portland cement concrete highway and airfield pavements.

This Standard does not intend to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

#### **Referenced Documents:**

ASTM (American Society for Testing and Materials) Standards

D 5167 - Practice for melting of hot-applied joint and crack sealant and filler for evaluation.

D 5249 - Specification for backer material for use with cold- and hot-applied crack/joint sealants in Portland-cement concrete and asphalt joints.

D 5329 - Test methods for sealants and fillers, hot-applied, for cracks/joints in asphaltic pavement and Portland-cement concrete pavements.

The joint sealant, when in place, shall form a resilient and cohesive compound that is resistant to weathering, and shall effectively seal cracks/joints in concrete throughout repeated cycles of thermal expansion & contraction, and against the infiltration of moisture and non-compressible. It shall not flow from the joint or be picked up by vehicle tires. The crack/joint sealant, before placement, shall be stable at the safe heating temperature for up to 6 hours. The poured joints shall be free of internal voids due to placement or that develop subsequently in service.

### **Physical Requirements**

#### **Safe Heating Temperature:**

The highest temperature to which the sealing compound can be heated & still conform to all the requirements are specified herein. For the purposes of testing as specified hereafter, the pouring temperature for specimen preparation shall be the safe heating temperature, as recommended by the sealant manufacturer. The safe heating temperature shall be shown on all containers and shall be provided to the NMDOT before any laboratory tests are begun. The safe heating temperature shall be a minimum of 20 Degrees F. (11 Degrees C.) higher than the manufacturer's recommended application temperature

#### **Cone Penetration:**

Non-Immersed at 77 +/- 0.2 Degrees F. (25 +/- 0.1 Degrees C.) 150G, for 5 seconds, shall not exceed 130 units.

#### **Flow:**

There shall be no flow after 72 hours at 158 +/- 2 Degrees F. (70 +/- 1 Degree C.)

#### **Bond:**

The sealant shall be tested at 0 +/- 2 Degrees F. (-17.8 +/- 1.1 Degree C.) for three complete cycles of 50 - percent extension each. All three specimens shall meet the following requirements for bond.

#### **Non immersed:**

No specimen shall develop any crack, separation, or other opening in the sealing compound or between the sealing compound & the concrete blocks.

**Water-Immersed** - No specimen shall develop any crack, separation, or other opening in the sealing compound or between the sealing compound and the concrete block.

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**Resilience:**

When tested at 77 +/- 0.2 Degrees F. (25 +/- 0.1 Degree C.) the recovery shall be a minimum of 60 percent.

**Resilience Oven-Aged:**

When conditioned in a forced-draft oven maintained at 158 +/- 2 Degrees F. (70 +/- 1 Degree C.) for 24 +/- 2 H, and tested at 77 +/- 0.2 Degree F. (25 +/- 0.1 Degree C.) the recovery shall be a minimum of 60 percent.

Artificial Weathering - After 160 hours of exposure, the joint sealant shall not flow, show tackiness, the presence of an oil-like film or reversion to a mastic-like substance, form surface blisters, either intact or broken, form internal voids, have surface crazing, cracking, hardening, or loss of rubber-like properties. Evidence of physical change in the surface of the material by visual & tactile examination shall constitute failure of this test.

**Tensile Adhesion:**

The average of 3 test specimens shall be a minimum of 500 percent elongation.

**Flexibility:**

When conditioned in forced draft oven maintained at 158 +/- 2 Degrees F. (70 +/- 1 Degree C.) for 72 H, and bent at 90 Degrees over a 0.25 IN. (6.4MM) diameter mandrel, the specimen shall have no indication of surface crazing or cracking.

**Sampling and Heating**

**Sampling:**

Samples may be taken at the plant or warehouse prior to delivery or at the time of delivery, at the option of the NMDOT. If sampling is done prior to shipment, the inspector representing the NMDOT shall have free access to the material to be sampled. The inspector shall be afforded material to be sampled. The inspector shall be afforded all reasonable facilities for inspection and sampling which shall be conducted so as not to interfere unnecessarily with the operation of the works.

Samples shall consist of one of the manufacturer's original sealed containers selected at random from the lot or batch of finished material. A batch or lot shall be considered as all finished material that was manufactured simultaneously or continuously as a unit between the time of compounding and the time of packaging or placing in shipping containers.

The sealant portion for testing shall be obtained from the selected manufacturer's original sealed container in accordance with practice D 5167. The sample portion for testing which is added to and heated in the melter shall weigh a minimum of 2500 G.

**Heating:**

Heat the material in accordance with practice D 5167.

**Initial Melting:**

Heat the oil bath in the melter to the safe heating temperature of the sealant being tested. Add the sample according to instructions in practice D 5167. After the sample has been added, the oil bath temperature may be increased to not more than 20 F (11 C) higher than the sealant safe heating temperature, to raise the sealant temperature to the safe heating temperature within the required 1 hour as stated in practice D 5167.

**Extended Heating:**

Continue heating the sample at the safe heating temperature until 6 hours have elapsed after adding the first segment to the melter. Test specimens for evaluation are then immediately poured from the material that has been heated for 6 hours.

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**Test Methods:**

The physical properties enumerated in this specification shall be determined in accordance with method D 5329.

**Packaging & Package Marking:**

The joint sealant shall be packaged in approximate 3 gallon sealed containers or as otherwise specified by the user. Each container shall be clearly marked with the name and address of the manufacturer, the trade name of the sealant, specification designation, the manufacturer's batch or lot number, recommended application temperature, safe heating temperature, & application instructions, unless otherwise specified in the Price Agreement or purchase order.

**Standard Specifications for Joint and Crack Sealants, Hot Applied, for Concrete and Asphalt Pavements  
AASHTO Designation M 324-08 (ASTM Designation: D 6690-12):**

All applicable sections of The New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction current edition and current Special Provisions and Supplemental Specifications shall apply and be considered an integral part of these specifications.

All work done under this Price Agreement shall meet the following specifications as set forth in the New Mexico State Department of Transportation Standard Specifications for Highway and Bridge Construction, current edition and current special provisions and supplemental specifications:

**Section 411: Hot-Poured Crack Sealant**

This specification covers joint and crack sealants of the hot-applied type intended for use in sealing joints and cracks in Portland cement concrete and asphalt pavements.

The values stated in SI units are the standard.

This standard does not intend to cover the properties required of sealants for use in areas of Portland cement concrete or asphaltic pavement subject to jet fuel or other fuel spillage such as vehicle and/or aircraft refuel and maintenance areas.

This standard does not intend to address all of the safety concerns, if any, associated with its use. It is the responsibility of NMDOT of this standard to establish appropriate safety and health practices and determine the applicability of regulatory requirements prior to use.

**Referenced Documents:**

**ASTM Standards:**

D 1190 Specification for concrete joint sealer, hot-applied elastic type.

D 3405 Specification for joint sealants, hot-applied for concrete and asphalt pavements.

D 5167 Practice for melting of hot-applied joint and crack sealant and filler for evaluation.

D5249 Specification for backer material for use with cold and hot-applied joint sealants in Portland cement concrete and asphalt joints

D 5329 Test methods for sealants and fillers, hot-applied, for joints and cracks in asphaltic and Portland cement concrete pavements.

**Federal Specifications SS-S-1410C**

**General Requirements:**

The sealant shall be composed of a mixture of materials that will form a resilient and adhesive compound capable of effectively sealing joints and cracks in concrete and asphaltic pavements against the infiltration of moisture and foreign material throughout repeated cycles of expansion and contraction with temperature changes, and that will not, at ambient temperatures, flow from the joint or be picked up by vehicle tires. The material shall be capable of being brought to a uniform pouring consistency suitable for completely filling the joints without inclusion of large air holes or discontinuities and without damage to the material. It shall remain relatively unchanged in application characteristics for at least 6 Hat the recommended pouring temperature in the field.

**Classification:**

**Type I**

A joint and crack sealant capable of maintaining an effective seal in moderate climates. The material is tested for low temperature performance at -18C using 50% extension (specification D 6690).

**Type II**

A joint and crack sealant capable of maintaining an effective seal in most climates. Material is tested for low temperature performance at -29C using 50% extension (specification D 6690).

**Type III**

A joint and crack sealant capable of maintaining an effective seal in most climates. Material is tested for low temperature performance at -29C using 50% extension. Special tests are included (Federal Spec. SS-S-1401C).

**Type IV**

A joint and crack sealant capable of maintaining an effective seal in most climates experiencing very cold temperatures. Material is tested for low temperature performance at -29C using 200% extension.

Note: It is the responsibility of the New Mexico Department of Transportation to determine which type is most applicable to their conditions.

**Physical Requirements:**

**Maximum Heating Temperature:**

The maximum heating temperature is the highest temperatures to which a sealant can be heated and still conform to all the requirements specified herein. For purposes of testing as specified hereinafter, the application temperature hereinafter, the application temperature shall be the same as the maximum heating temperature. The maximum heating temperature shall be set forth by the manufacturer and shall be shown on all containers and shall be provided to the testing agency before any laboratory tests are begun.

**Sampling and Heating:**

**Sampling:**

Samples may be taken at the plant or warehouse prior to delivery or at the time of delivery, at the option of the NMDOT, if sampling is done prior to shipments, the inspector representing the NMDOT shall have free access to the material to be sampled. The inspector shall be afforded all reasonable facilities for inspection sampling which shall be conducted so as not to interfere unnecessarily with the operation of the works.

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Samples shall consist of one of the manufacturer's original sealed containers selected at random from the lot or batch of finished material. A batch or lot shall be considered as all finished material that was manufactured simultaneously or continuously as a unit between the time of compounding and the time of packaging or placing in shipping containers.

Obtain the sealant portion for testing from the selected manufacturer's original sealed container in accordance with practice D 5167. The sample portion added to and heated in the melter shall weigh  $800 \pm 50$  g., for types I, II, IV, and  $1600 \pm 50$  g for type III. Both pots of the melter described in practice D 5167 shall be used for type III.

**Heating:**

Heat the material in accordance with practice D 5167.

The oil bath in the melter shall be heated to a temperature between the sealant's maximum heating temperature and (42C) above the sealant's maximum heating temperature. (Never allow the oil temperature to exceed (288 C). Add the sealant to the melter according to the instructions in practice D 5167, after the sample has been added to the melter; regulate the oil temperature within the listed temperature limits while raising the sealant's temperature to manufacturer's recommended maximum heating temperature within the required 1 hour of time, as stated in practice D 5167. Immediately upon reaching the maximum heating temperature, pour samples for testing except for type III which shall be heated for 3 hours from the time of first addition to the melter.

**Test Methods:**

The physical requirements enumerated in this specification shall be determined in accordance with test methods D 5329.

**Packaging and Marking:**

Product shall be supplied in 30 lb. (13.6 kg) completely meltable packages that are interlock stacked on pallets containing 2100 lb. (952 kg) of product. The individual packages and palletized unit shall not contain any cardboard components to open, empty, handle, or dispose of. Packages shall be labeled in accordance with OSHA, GHS and ASTM requirements. The packages and palletized unit shall be water and weather resistant and shall be able to be stored outside.

The individual packages of product shall be encased in a high-strength, low-density, protective covering that quickly melts into the product at normal use temperatures without affecting product installation characteristics or specification conformance.

The protective covering shall not weigh more than 0.50% of the product weight and shall have the following properties:

Thickness (ASTM D1777, 7.15 psi, 0.625 in. dia. presser) 0.004-0.008 in. (0.10-0.20 mm) Puncture Resistance (ASTM E 154) 75 lb. (334N) minimum Tensile Strength (ASTM D5035, cut strip, 2 in. /min) 20 lb. /in. (35N/cm) minimum Density (ASTM D792) 0.50 g/cc maximum

The sealing compound shall be delivered in the manufacturer's original containers that meet the meltable packaging specification as stated under 8.1.1. Each container shall be legibly marked with the name of the manufacturer, the trade name of the sealant, the manufacturer's batch, or lot number and specification number and type, the minimum application temperature and the maximum heating temperature. The maximum heating temperature must be at least 11 C (20 F) higher than the minimum application temperature.

### **Rental Equipment Specifications**

#### **Pavement Cutter:**

The purpose of these specifications is to describe a Pavement Router with Clutch. This unit must be of the manufacturer's current production. This unit shall be capable of routing while accurately following random cracks in asphalt or concrete surfaces at an estimated speed of 1,500 linear feet (500 meters) per hour.

#### **Frame:**

There shall be a stub axle attached on each side of the frame assembly in line with the cutter head. Attached to each stub axle shall be a pneumatic tire with tapered bearing. (Total tires on machine is 2). The entire assembly of engine, cutter head, cutter head housing and all other part assemblies shall be mounted on a heavy steel frame, electric welded through 100% of the metal thickness and all other part assemblies shall be mounted on a heavy steel frame, electric welded through 100% of the metal thickness at each joint for maximum strength and rigidity.

#### **Engine:**

The engine shall be mounted on a hinged saddle to permit belt tension. The cutter shall be powered by a Kohler Command Pro engine with hour meter. This engine shall be capable of producing 27 HP (20.1 kW) at 3600 RPM. The cutter shall be powered by a Kohler Command Pro engine with hour meter. This engine shall be capable of producing 27 HP (20.1 kW) at 3600 RPM. The engine shall have a full flow oil filter and oil cooler. A dual element air cleaner shall be installed on the engine. A dirty air cleaner indicator will be installed between the two air filtration systems and the engine.

#### **Cutter Head:**

The cutter head shall be mounted on a drive shaft having a minimum diameter of 1¼ inch (4.4 cm) and is fastened with a minimum of two ½ inch (1.2 cm) hex head cap screws in conjunction with a minimum 3/8 inch (0.95 cm) x 4 inch (10.2 cm) key. The cutter head drive shaft shall be mounted by means of two self-aligning ball bearings. The cutter head shall accommodate aligning ball bearings minimum of six - eight tooth carbide tipped cutters. By rearranging the spacers, the cut width can be varied from ½ inch (1.2 cm) to 2 inch (5.1 cm) wide. The cutter head shall be housed in a steel-housing capable of containing the cutter assembly and covering 80% of the total cutter assemblies surface area. The driving force from the engine to the cutter head shall be transmitted through a clutch and twin grooved sheaves and twin matched "V" belts covered with a removable metal guard ventilated to prevent upward suction of pavement debris. The cutter head and its protective housing shall be able to raise and lower a minimum of four inches by means of an electric lineal actuator operated by a fingertip control switch mounted on the operator handle.

#### **Clutch:**

An electric clutch shall be mounted on the engine in such a manner as to stop the cutter head on demand without stopping the engine. The clutch switch shall be located on the handle in order to facilitate easy access by the operator.

#### **Carbide Skid Plate:**

A pavement router shall be equipped with a replaceable carbide skid plate mounted at the rear of the cutter head housing in order to facilitate stopping of the unit, controls speed and increases crack tracking accuracy.

#### **Battery:**

The unit shall be equipped with a 12-volt battery capable of starting the engine and operating the clutch and actuator. The battery shall also be housed in a fully enclosed box that is weather resistant and heavy duty.

#### **Fuel Tank:**

The unit shall be equipped with a 6 gallon (22.7 l) minimum size gasoline tank. The tank shall be safely strapped to the frame and shielded by means of a metal guard that protects the front and corners of the tank. The tank shall also be manufactured from unbreakable shatterproof, nonmetallic materials.



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**Cutters:**

The unit shall be supplied with pins, spacers and a complete set of wide hub carbide cutters. Additional Cutters must be purchased by the NMDOT.

**Training:**

An authorized, factory-trained representative will be made available for a full day of "on the job" training at a facility designated by the NMDOT.

At this training session a complete operational, mechanical and safety overview will occur. The CD manual and startup video will be viewed and discussed with all concerned personnel.

**Melter/Applicator Equipment Specification:**

The purpose of this specification is to describe a melter/applicator equipment for rental by the NMDOT to apply hot pour crack/joint sealant.

The specifications are to describe a double-boiler type melter applicator that is specifically designed for and shall be capable of heating and applying all grades of asphalt rubber sealant, fiber modified asphalt sealant and specification joint sealant without further equipment modification. It may be used for the application of resinous, colored sealant and fillers. This unit shall be the manufacturer's current production model manufactured in the United States of America. The machine shall be capable of starting at ambient temperature and bringing the sealant material up to application temperature in one hour or less. All qualified bidders must have and maintain a complete inventory of repair parts and have experienced factory-trained service personnel for this equipment. A comprehensive safety manual and an operational/maintenance CD shall be supplied with each unit. A factory-trained person shall be made available for initial start-up and training in the operation of the melter. The material should be heated in a kettle or melter constructed as a double boiler, with space between the inner and outer shells filled with oil or other heat-transfer medium. Thermostatic control for the heat -transfer medium shall be provided and shall have sufficient sensitivity to maintain sealant temperature within the manufacturer's specified application temperature range. Temperature indicating devices shall have intervals no greater than 5°F (2.8°C) and shall be calibrated as required to assure accuracy. The melter shall have continuous sealant agitation and a mixing system to provide uniform viscosity and temperature of material being applied.

**Required Safety Requirements:**

The unit shall have a safety shut-off feature on the lid that automatically stops the agitator when the lid is opened.

The electric applicator wand shall be equipped with an automatic shut-off feature that will stop the flow of sealant when the handle is released or dropped.

The sealant line pressure will automatically cease when the sealant flow is stopped.

The operator shall not be required to perform any additional activity other than releasing the wand trigger switch to cease sealant line pressure. There shall be no valves in the line to allow interruption of sealant flow from the pump to the electric wand end.

The heat transfer oil shall adequately and efficiently bring the sealant material to application temperature without the use of a heat transfer oil circulation pump. This eliminates the potential exposure of personnel to pressurized hot heat transfer oil.

**Towing Frame and Jack:**

This unit shall be trailer mounted. The longitudinal side frames and tongue members of the trailer shall be of one continuous piece construction composed of hot rolled steel channel having the minimum dimensions of 5 inches (12.7 cm) depth, 5/16 inch (.79 cm) web thickness with 1.75 inch (4.5 cm) flange width. The configuration of the channels shall be cold formed with the flanges on the outside resulting in a one-piece frame member with no cross welding of or on the flanges to avoid any possibility of flange stress cracking. The tongue shall be equipped with an appropriate pintle hitch. It shall be adjustable in height above ground level from a minimum of 14 inches (35.6 cm), to a maximum of 32 inches (81.3 cm), permitting practically level towing with a wide range of towing vehicles. The towing hitch shall be bolted to the hitch plate for easy height adjustment and/or conversion to other type hitches. A screw-post tongue jack shall be furnished. It shall be a heavy-duty type with a load capacity of 7,000 pounds (3,175 kg) and it shall be side mounted and swing away for positive road clearance while under tow.

**Running Gear:**

The unit shall be equipped with a dual independent rubber torsional suspension having a safe load capacity of 5,200 pounds (2,359 kg), electric brakes, modular wheels and ST225/75R15 tubeless tires (Load Range D). This suspension eliminates springs and shackles that rust and reduce ground clearance. The melter shall have dual LED taillights, stoplights and turn signals. The lighting shall be ICC approved. A license plate holder shall be attached to the driver's side taillight. All melter fluid tanks shall be positioned no lower than the deck level and be mounted on the top of channel frame members to assure proper ground clearance. The unit shall also be equipped with two safety chains not less than 48 inches (121.9 cm) of .38 inch (.97 cm) coil proof chain, attached to the tongue with a drilled type clevis pin on the end attached to the frame and screw type clevis pin on the opposite end. Total shipping weight is approximately 5,860 pounds (2,658 kg).

**Heating Tank:**

The material heating tank shall be a minimum of 50.50 inches (128.27 cm) in diameter by 29.50 inches (74.93 cm) deep having a minimum capacity of 250 gallons (946 L) at ambient temperature. The tank will have a rear discharge from the pump and rear plug outlet. A double boiler type jacket shall create a reservoir that shall hold a minimum of 49 gallons (185 L) and required no more than 55 gallons (207 L) of heat transfer oil at 70°F (21°C). (Note: at 500°F (260°C) the heating oil will expand approximately 18%). The jacket shall wrap around 100% of the outside area of the circular material tank and bottom and allow for complete circulation of the heated transfer oil. The tank and jacket shall be made of not less than 3/16 inch (.94 cm) rolled sheet steel. There shall be one plug to allow the entire heat transfer oil system to be drained. The heat transfer oil shall be of ISO grade 68.

**Expansion Tank:**

A sealed expansion tank for heat transfer oil shall be provided to minimize oil oxidation and prevent moisture condensation into the heat transfer oil. Overflow down tubes are unacceptable.

**Hydraulic Tank:**

The hydraulic system shall incorporate a single hydraulic pump to power the agitation and pumping system. All valves shall be solenoid operated by toggle switch and wand handle switch. The controls will allow for bi-directional operation of the sealant pump. A flow control valve will be mounted on the rear of the unit to allow the operator to adjust the pump operational speed. The minimum 26-gallon (98.3 L) hydraulic tank will be equipped with an internal 10-micron full flow filter. The filter shall be equipped with a restriction indicator to indicate the need for service. A sight gauge level indicator equipped with a thermometer to measure oil temperature will be mounted on the tank and located where it is easily viewed.

**Insulation:**

The heating tank shall be insulated with a minimum of 1½ inch (3.81 cm) thick high temperature ceramic insulation and covered by a 22 gauge (.07 cm) steel outer wrapper. Fiberglass and rock wool insulation are unacceptable due to their moisture retention properties resulting in a significant loss in insulating value over an eighteen-month period.

**Loading Hatch:**

A low profile angled lid opening for loading shall be required at the top of the material tank and shall be located on the curbside of the machine for operator safety. The loading height shall be a minimum of 50 inches (127 cm) and shall not exceed 59 inches (149 cm) for correct ergonomic lifting and fume exposure. This will allow the operation of the equipment, including sealant loading, from curbside. Loading systems that require the operator to step onto the melter are unacceptable. The opening shall have a minimum area of 384 square inches (2,477 square cm), while not exceeding 400 square inches (2580 square cm) in order to prevent heat loss, and shall be hinged to allow placement of a block of sealant onto lid and closure of lid for easy, anti-splash loading. The loading hatch shall be easily adaptable for the addition of a retrofit powered loading conveyor with anti-splash tower.

**Heating System:**

The heat transfer oil is heated by one 290,000 BTU maximum high efficiency forced air diesel fired burner directly at the bottom of the heat transfer oil tank. The total area exposed to the burner shall be a minimum of 7,655 square inches (49,387 square cm). The material tank shall have a minimum of 6,632 square inches (42,787 square cm) of contact with the heat transfer oil. No other mechanical circulation of the heat transfer oil by pump shall be accepted. This provides for a melt rate of 1,700 pounds (771 kg) per hour.

**Ignition of Burner:**

The burner shall be lit by a constant duty high voltage transformer powering an electric spark igniter. This igniter shall work in conjunction with a sensor that detects a lack of burn or ignition and shuts down the fuel supply. The thermostat control is located on the curbside of the machine for operator safety.

**Integrated Control System:**

The melter applicator shall have electronic thermostat controls that will automatically regulate hot oil, material and hose temperatures and in turn display these temperatures on digital readouts. The controls shall operate at temperature ranges needed for proper application of sealant. They shall be activated by a single power switch, which will then turn on the agitator and pump at the proper time by use of interlocks. The interlock for the agitation system will not allow the pump to be activated until the material temperature reaches 275°F (135°C) and the interlock for the pumping system will not allow the pump to be activated until the hose temperature reaches 325°F (162.8°C). All temperature controls shall be contained in a single weatherproof control box. This control box shall also contain the engine ignition controls, hour meter and any engine gauges.

**Drive and Drive Controls:**

The motive force to the agitator and material pump shall be hydraulic motors driven by a single hydraulic pump. The drive controls governing the rotational speed of the material pump shall be controlled by adjustable hydraulic valves. The drive controls governing the speed of the material pump shall be controlled from the rear of the machine. The material pump will have infinite speed control and is electrically actuated by a toggle switch on the control panel or a switch on the hand wand.

**Agitation:**

A hydraulically driven full sweep vertical agitator with two (2) opposing horizontal paddles and vertical risers attached to the ends shall mix the sealant material. This feature ensures that material remains in complete suspension and that the hot material stays in the lower area of the tank and does not get splashed or thrown to the upper areas of the tank. The agitation system shall be chain driven from the hydraulic motor to the agitator. The agitator rotates in both directions. For additional safety, the agitator will shut off automatically when the loading hatch is opened.

**Bi-Directional Variable Speed Pumping Unit:**

A hardened steel gear pump is located in the center of the material tank attached to the bottom of the tank. Pumping of material is controlled by a switch on the hand wand and output is controlled hydraulically. The pump and agitator drive shaft stands vertically attached to two motors on the top surface of the tank. One motor rotates an axial tube having radial mixing blades at the chamber bottom. The second motor drives a coaxial shaft running through the tube to the pump. Sealant pumping shall be on demand. When pumping stops, all line pressure and sealant flow shall stop. No external plumbing or recirculation back into the tank is acceptable. No internal or external valves shall be used in the pumping and sealant delivery system. The pump shall be capable of delivering sealant at a rate that exceeds the melt rate of the unit.

**Active Pump Protection:**

The pump shall be completely encircled by a protective screen. The screen shall not allow anything larger than ½ inch (1.27 cm) in size to pass from the sealant tank into the pump suction port. The screen shall continuously rotate 360° around the pump whenever the sealant agitator is engaged. The active screen will protect the pump from foreign object damage and will self-clean as it rotates around the sealant pump and suction port.

**Sealant Hose and Applicator Wand:**

Both the hose and wand are heated by low voltage electric current and are temperature regulated. The combination length between the hose and wand shall not be less than 22 feet (6.70 m). Due to weight and safety considerations, an oil-jacketed hose is unacceptable. The hose shall be specifically manufactured for handling liquid asphalt products up to 500°F (260°C) at 500 psi (34.47 bar) working pressure. Hose shall not be less than 18 feet (5.48 m) in length. For maximum operator safety, it shall be made of stainless steel braid with a ¾ inch (1.91 cm) inside diameter and shall be Teflon lined. Further, it shall be heavily insulated to prevent hot material from leaking out. Total diameter of the hose shall be not greater than 2¼ inch (5.72 cm). The total weight of the hose shall not exceed 20 pounds (9.07 kg). The hose is to be wrapped with a minimum of three electrical wires with terminal ends. The wires will be capable of heating the hose to 400°F (204°C) in less than 45 minutes and have variable temperature control capability. A digital readout displays the temperature. The hand wand shall not be less than 4 feet (1.22 m) in length. The hand wand shall be constructed of steel with sufficient strength to withstand normal day-to-day operation. Material flow is controlled by a trigger switch. For greater operator mobility, the connection between the wand and hose shall be through a 360° degree swivel. There shall be no obstruction or valves between the material pump and the wand end. The hose is supported by a 6 ft. boom (1.83 m), which swivels side to side on dual pillow block bearings. The boom is centered at the rear of the machine.

**Engine:**

The unit shall be equipped with a diesel engine complying with the following specifications:

Electric Start

Three Cylinder 25.4 HP (18.94 kW)

Full Flow Oil Filter

3.14" (79.7 mm) Stroke

68.6 cu. Inch (1.21 L) Displacement 3.05" (77.4 mm) Bore

Constant Speed Mechanical Governor Water Cooled

22:1 Compression Ratio

The engine speed is preset at the factory for optimal alternator output to power the heated wand and hose.

Engine Shutdown Package (low oil pressure & high temperature).

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**Items:**

Items	Approx. Qty.	Unit	Article and Description	Unit Price
001	10,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type I (5,000 to 15,000 lbs.)	\$0.577
002	25,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type I (15,001 to 30,000 lbs.)	\$0.577
003	45,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type I (30,001 to 60,000 lbs.)	\$0.577
004	85,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type I (60,001 to 100,000 lbs.)	\$0.547
005	10,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type I (5,000 to 15,000 lbs.)	\$0.577
006	25,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type I (15,001 to 30,000 lbs.)	\$0.577
007	45,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type I (30,001 to 60,000 lbs.)	\$0.577
008	85,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type I (60,001 to 100,000 lbs.)	\$0.547
009	10,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type II (5,000 to 15,000 lbs.)	\$0.607
010	25,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type II (15,001 to 30,000 lbs.)	\$0.607
011	45,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type II (30,001 to 60,000 lbs.)	\$0.607
012	85,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type II (60,001 to 100,000 lbs.)	\$0.577
013	10,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type II (5,000 to 15,000 lbs.)	\$0.607

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Items	Approx. Qty.	Unit	Article and Description	Unit Price
014	25,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type II (15,001 to 30,000 lbs.)	<b>\$0.607</b>
015	45,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type II (30,001 to 60,000 lbs.)	<b>\$0.607</b>
016	85,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type II (60,001 to 100,000 lbs.)	<b>\$0.577</b>
017	10,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type III (5,000 to 15,000 lbs.)	<b>\$0.607</b>
018	25,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type III (15,001 to 30,000 lbs.)	<b>\$0.607</b>
019	45,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type III (30,001 to 60,000 lbs.)	<b>\$0.607</b>
020	85,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type III (60,001 to 100,000 lbs.)	<b>\$0.577</b>
021	10,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type III (5,000 to 15,000 lbs.)	<b>\$0.607</b>
022	25,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type III (15,001 to 30,000 lbs.)	<b>\$0.607</b>
023	45,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type III (30,001 to 60,000 lbs.)	<b>\$0.607</b>
024	85,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type III (60,001 to 100,000 lbs.)	<b>\$0.577</b>
025	10,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type IV (5,000 to 15,000 lbs.)	<b>\$0.607</b>
026	25,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type IV (15,001 to 30,000 lbs.)	<b>\$0.607</b>



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Items	Approx. Qty.	Unit	Article and Description	Unit Price
027	45,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type IV (30,001 to 60,000 lbs.)	<b>\$0.607</b>
028	85,000	LBS	Joint sealant, hot poured elastomeric type, for pavements to meet AASHTO M282-99 and ASTM 3406-95, Type IV (60,001 to 100,000 lbs.)	<b>\$0.577</b>
029	10,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type IV (5,000 to 15,000 lbs.)	<b>\$0.607</b>
030	25,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type IV (15,001 to 30,000 lbs.)	<b>\$0.607</b>
031	45,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type IV (30,001 to 60,000 lbs.)	<b>\$0.607</b>
032	85,000	LBS	Joint and crack sealants, hot applied for concrete and asphalt pavements to meet AASHTO M-324-08 and ASTM D6690 Type IV (60,001 to 100,000 lbs.)	<b>\$0.577</b>
033	1	Week	7 - Day Rental of Pavement Cutter as required by Specification	<b>\$1,877.00</b>
034	1	Month	30 - Day Rental of Pavement Cutter as required by Specification	<b>\$3,477.00</b>
035	6	Each	Cutter Blade for Pavement Cutter (6 -36 Carbide Cutters)	<b>\$59.00</b>
036	1	Week	7 - Day Rental of Melter/Applicator Equipment as required by Specification	<b>\$2,077.00</b>
037	1	Month	30 - Day Rental of Melter/Applicator Equipment as required by Specification	<b>\$4,677.00</b>

**\*\*\*37 Items Total\*\*\***