



## **Project Information and Specifications for SCP23-12 Hot Poured Joint, Crack Sealant and Mastic**

**These project specifications are generally based on the most current CDOT Standard Specifications for Road and Bridge Construction and CDOT M&S Standards. Clarifications and additional applicable information may be obtained from that standard. Any such information shall be referred to the County for specific direction where any specification is not clearly or completely defined.**

### **Table of Contents**

INVITATION TO BID .....	2
BID FORM .....	8
PROJECT SPECIFICATIONS .....	10
Spec. # 407.001 – Hot Applied Sealant .....	11
Spec. # 407.002 – Mastic Crack Sealing and Super Stretch Hot Applied Sealant .....	13
PROJECT LOCATIONS .....	15

April 22, 2022

## **INVITATION TO BID**

April 22, 2022

**INVITATION TO BID**  
**for**  
**SCP23-12 Hot Poured Joint, Crack Sealant and Mastic**  
**5/19/2023**

**Proposals Due:**

6/5/2023 by 10 a.m. MDT

**Overview**

Summit County Government (“County”) is soliciting bids from qualified contractors to provide services for Hot Poured Joint, Crack Sealant and Mastic.

Copies of the request are available at [www.SummitCountyCO.gov](http://www.SummitCountyCO.gov) under ‘Bids & Proposals’ or by request at the County Road & Bridge Department Office. Contact James Benkelman, Asset Technician, for additional project information at [jim.benkelman@summitcountyco.gov](mailto:jim.benkelman@summitcountyco.gov) or (970) 668-4087.

**Scope of Services**

Contractor shall furnish all labor, transportation, and incidentals necessary to perform the repairs on various county roads using Hot Poured Joint Crack Sealant and Mastic.

Work shall be completed as set forth in a contract for this project to be negotiated with the County based upon the contractor’s written proposal.

**Date and time of service**

Service will be performed on an ongoing daily basis beginning in late summer or early fall of 2023. Service will be performed on a regular daily schedule (Monday through Friday) to be agreed upon prior to contract. Potential schedule should be included in contractor's written proposal.

**Indemnification and Insurance**

Contractor shall indemnify and hold harmless the County from and against all claims, damages, losses, and expenses arising out of or resulting from acts or omissions of the Contractor, Contractor’s sub-contractors or otherwise arising out of the performance of services by Contractor. No later than seven (7) days following the execution of an Independent Contractor Agreement between the County and Contractor, the Contractor shall provide the County with certificates of insurance evidencing the types and amounts of insurance specified below:

- a. Worker’s Compensation and Employer’s Liability:
  - i. Worker’s Compensation must be maintained with the statutory limits.
  - ii. Employer’s liability is required for minimum limits of:
    - \$1,000,000 Each Accident
    - \$500,000 Disease Policy
    - \$1,000,000 Disease Each Employee
- b. Commercial General Liability:
  - i. \$1,000,000 Each Occurrence
  - ii. \$2,000,000 General Aggregate
  - iii. \$2,000,000 Products Completed Operations Aggregate
- c. Automobile Liability: Contractor will maintain business auto liability coverage covering liability arising out of any auto (including owned, hired, and non-owned autos) used in the performance of services under this Agreement.
  - i. \$1,000,000 Combined Single Limit Each Accident

Insurance coverage shall not be reduced below the limits described above or cancelled without the County’s written approval of such reduction or cancellation. Certificates of such insurance, of agents and

April 22, 2022

subcontractors, shall be provided to the County upon request. With regard to all insurance, such insurance shall:

- Be primary insurance to the full limits of liability herein before stated and, should County have other valid insurance, County insurance shall be excess insurance only; and
- Not cancelled without thirty (30) days prior written notice to the County.

**Proposal Format**

Costs for performing services outlined in this Invitation to Bid shall be clearly stated to allow the County to effectively evaluate each proposal. Potential daily schedule of services should also be included.

**Refinements and Improvements**

Applicants should feel free during the proposal submission process to provide any suggestions or comments that might be advantageous for the County to consider in terms of any efficiencies, issues, or processes. The County is not committed to any single scenario, but efficiency of resources and minimizing impacts are critical in completing this work.

The following pages contain the Invitation to Bid instructions and owners requirements.

**Part I - ADMINISTRATIVE INFORMATION**

**A. Issuing Officer**

This request for bidding is issued by Road & Bridge Department. For questions, please contact James Benkelman, Asset Technician, at jim.benkelman@summitcountyco.gov or (970) 668-4087.

**B. Purpose**

This Invitation to Bid provides prospective contractors with sufficient information to prepare and submit proposals for consideration by the County. To be considered responsive, each proposal must provide for completion of the tasks outlined in the Invitation to Bid.

**C. Scope**

This Invitation to Bid contains the instructions governing the proposals to be submitted and the materials to be included therein. These are mandatory requirements that must be met to be eligible for consideration.

**D. Scheduling**

Bids must be submitted via email to jim.benkelman@summitcountyco.gov to the Road & Bridge Department by 6/5/2023 no later than 10 a.m. MDT. The bid should outline the schedule for commencement of service.

**E. Inquiries and Questions**

Prospective applicants are welcome to make inquiries and ask questions concerning the Invitation to Bid to obtain clarification of the any requirements or schedule a site visit to the properties. Direct all inquiries to:

James Benkelman, Asset Technician  
Road & Bridge Department  
(970) 668-4087  
[jim.benkelman@summitcountyco.gov](mailto:jim.benkelman@summitcountyco.gov)

April 22, 2022

Time Schedule:

5/19/2023 Invitation to Bid publicly advertised and posted on County website

5/25/2023 Deadline for all Questions

5/29/2023 All Questions, Comments and Responses to Questions posted by the County at Bids and Proposals on [www.SummitCountyCO.gov](http://www.SummitCountyCO.gov)

6/5/2023 Proposals must be submitted via email to [jim.benkelman@summitcountyco.gov](mailto:jim.benkelman@summitcountyco.gov) no later than 10 a.m. MST/MDT

6/5/2023 Official Bid Opening 10:30 am

6/10/2023 Interview with short-listed Proposers if necessary

6/12/2023 Contract negotiations (week of)

6/19/2023 Notice of Award and send Unsuccessful Bidder letter (email) to all proposers

**F. Instructions for Submission of Bids**

It is imperative, when submitting a bid, that the outside of the submission email be addressed as follows and with the following exact text in the email subject line and text in the top few lines of the body of the email:

**Email Address:**

To: [jim.benkelman@summitcountyco.gov](mailto:jim.benkelman@summitcountyco.gov)

**Subject Line Text:**

Proposal for SCP23-12 Hot Poured Joint and Crack Sealant

**Body Text:**

ATTN: James Benkelman, Road & Bridge Department, Asset Technician

Proposal for: SCP23-12 Hot Poured Joint and Crack Sealant

1. Contractor's company name
2. Contact name and phone number

**G. Late Bids**

It is the responsibility of each vendor submitting a bid to ensure that emailed bids arrive to the Road & Bridge Department by 10 a.m.MDT on 6/5/2023.

**H. Proprietary Information**

Any restrictions on the use of data contained within a proposal must be clearly stated in the proposal itself.

**I. Response Material Ownership**

All materials submitted regarding this Invitation to Bid become the property of the County and will only be returned at the County's option.

**J. Incurring Costs**

The County is not liable for any costs incurred by those who have submitted proposals prior to issuance of a signed contract.

April 22, 2022

**K. Acceptance of Proposal Content**

The contents from the selected contractor's proposal will become contractual obligations if a subsequent agreement is reached. Failure of the successful contractor to accept these obligations may result in cancellation of the award and such contractor may be removed from future solicitations.

**L. Acceptance Time**

The County intends to make a proposal selection within 20 business days after the closing date for receipt of proposals.

**M. Budget**

Costs for performing services must be included in the proposals and should be clearly stated to allow the County to effectively evaluate each proposal.

**PART II – PROPOSAL CONTENT**

The proposal submitted must clearly address the requirements outlined in the Invitation to Bid. Any concerns that the contractor may have about meeting these requirements shall be specifically identified in the proposal.

**Scope of Work**

Provide an outline of the contractor's understanding of the project. Summarize the basic approach to providing the services, and any recommendations on improving efficiencies in the process.

**Qualifications**

Contractor shall furnish a summary of experience on similar projects and be prepared to provide examples. Include a brief description of past and current projects. Each summary shall include a brief project description and name, address and phone number of a local contact person involved in the project. The statement of qualifications should also provide a summary of contractor's ability to successfully complete the requirements of this Invitation to Bid. The statement of qualification shall be brief but shall include at a minimum the following:

1. Description of similar projects
2. Capabilities (including equipment) and staff

**PART III – BID EVALUATION AND SELECTION**

The County intends to engage the most qualified contractor available for this assignment while minimizing the costs to the County. Responsiveness to the Invitation to Bid will be a principle basis for evaluation. Bids shall provide a straightforward and concise presentation adequate to satisfy the requirements of the Invitation to Bid. The proposal should clearly express the contractor's understanding of the County's specific requirements, indicating the contractor's qualifications to conduct this service in a thorough and efficient manner.

Failure to disclose a conflict of interest is a misdemeanor criminal offense under Colorado Law. Such conflict may arise if any public official exercises any substantial discretionary function in connection with a government contract, purchase, payment, or other pecuniary transaction without necessary disclosures as defined by Colorado Revised Statutes (C.R.S.) Section 18-8-308 as amended.

**Selection Process.**

1. The County reserves the right to reject any and all proposals, to consider alternatives, to waive irregularities and to re-solicit proposals.

April 22, 2022

2. The County reserves the right to conduct such investigations of, and discussions with, those who have submitted proposals (“Proponents”) or other entities as it deems necessary to assist in the evaluation of any proposal or to secure maximum clarification and completeness of any proposal.
3. All proposals submitted must be valid for a minimum period of ninety (90) days after the date of the proposal opening. Each Proponent must submit with the proposal a list of all subcontractors, independent contractors or sub-consultants employed or proposed to be employed by the Proponent in the performance of the contract.
4. Selection of a contractor will be made at the sole discretion of the County. The County may consider the following criteria when evaluating bids that includes but is not limited to:
  - a. Cost;
  - b. The reputation, experience, and efficiency of the Proponent;
  - c. The ability of the Proponent to perform the contract or provide the goods and services within the time specified;
  - d. The comparative quality of the goods and services bid;
  - e. The Proponent’s performance under previous contracts with Summit County;
  - f. The number and scope of conditions attached to the proposal;
  - g. The Proponent’s interest in the project, as well as their understanding of the project scope and the specific requirements of Summit County; and
  - h. The application of all of the above criteria to any sub-consultants, subcontractors or products to be utilized by the Proponent.
5. Contract negotiations will take place with the most qualified contractor. The County reserves the right to incorporate specific contract provisions into the Proponent’s standard contract if the County’s standard contract cannot be used. Such provisions include but are not limited to insurance and indemnification provisions and governmental immunity provisions. If a contract cannot be negotiated, the negotiations will be terminated in writing and negotiations will begin with the next most qualified contractor.

April 22, 2022

**BID FORM**



April 22, 2022

**BID FORM**

SCP23-12 Hot Poured Joint and Crack Sealant						
	5/19/2023				<b>Bidders Estimate for Project</b>	
<b>Bid Item #</b>	<b>Spec Item #</b>	<b>Item Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Bidders Price</b>
1	407.001	Hot Applied Joint and Crack Filler	65000	Linear Ft		
2	407.002	Mastic	15000	LB		
						\$ -
					Total	\$ -

April 22, 2022

## **PROJECT SPECIFICATIONS**

## **Spec. # 407.001 – Hot Applied Sealant**

### **Description**

This work consists of furnishing and placing hot poured joint and crack sealant in properly prepared cracks in asphalt pavements. Cracks with a width greater than 3 mm (1/8 inch) and less than 25 mm (1 inch) are to be filled with this material. Cracks exceeding 1 inch (25 mm) shall be filled with the Mastic Sealant as described in Bid Item #1.

### **Location**

For bidding purposes, the following locations listed at the end of this document shall be considered. Summit County may choose to remove or add any roads at its discretion and will pay at contract price.

### **Materials**

For this bid item only Deery Super Stretch.2, Part No. 80433 or an approved equivalent shall be considered. The concrete blocks used in the Bond Test shall be prepared in accordance with CP-L 4101. Sealant material shall be supplied pre-blended, pre-reacted, and prepackaged. If supplied in solid form the sealant material shall be cast in a plastic or other dissolvable liner having the capability of becoming part of the crack sealing liquid. The sealant shall be delivered in the manufacturer's original sealed container. Each container shall be legibly marked with the manufacturer's name, the trade name of the sealer, the manufacturer's batch or lot number, the application temperature range, the recommended application temperature, and the safe heating temperature. Using a mixture of different manufacturers' brands or different types of sealants is prohibited. The sealant shall be listed in CDOT's Approved Products List prior to use.

### **Construction Requirements**

Immediately before applying hot poured joint and crack sealant, the cracks shall be cleaned of loose and foreign matter to a depth approximately twice the crack width. Cleaning shall be performed using a **hot compressed air lance**. This lance shall be used to dry and warm the adjacent asphalt immediately prior to sealing. Direct flame dryers shall not be used.

These Cracks shall be filled with hot poured joint and crack sealant flush with the pavement surface. Immediately following the filling of the crack, excess sealant shall be leveled off at the wearing surface by squeegee, a shoe attached to the applicator wand, or other suitable means approved by the County Representative. The squeegeed material shall be centered on the cracks and shall not exceed 25 mm (1 inches) in width or 1.5 mm (1/16 inch) in depth.

The sealant material shall be heated and applied according to the manufacturer's recommendations. The equipment for heating the material shall be an indirect heating type double boiler using oil or other heat transfer medium and shall be capable of constant agitation. The heating equipment shall be capable of controlling the sealant material temperature within the manufacturer's recommended temperature range and shall be equipped with a calibrated thermometer capable of  $\pm 3$  °C (5 °F) accuracy from 90 to 320 °C (200 to 600 °F). This thermometer shall be located so the County Representative can safely check the temperature of the sealant material. Overheating of the sealant material will not be permitted.

The face of the crack shall be surface dry, and the air and pavement temperatures shall both be at least 5 °C (40 °F) and rising at the time of sealant application.

April 22, 2022

Sealant material picked up or pulled out after being placed shall be replaced at the CONTRACTOR'S expense. The CONTRACTOR shall have blotter material available on the project in the event it is required to prevent tracking or pulling. If required, blotter material shall be approved by the County Representative and placed at the CONTRACTOR'S expense.

Mobilization, traffic control and all necessary tools, equipment, and labor costs incidental to the preparation of the surface prior to application of the hot poured joint and crack sealant will not be paid for separately but shall be included in the work. The CONTRACTOR shall provide all lights, signs, barricades, flagmen or other devices necessary to provide for public safety in accordance with the current **CDOT *Standard Specifications for Road and Bridge Construction***, the Manual on Uniform Traffic Control Devices for Streets and Highways and the Colorado Supplement thereto, in accordance with the Contract. Devices shall comply with NCHRP 350 criteria requirement. When a device is not in use, the CONTRACTOR may remove it from the project for the period it is not needed. Devices temporarily not in use shall, as a minimum, be removed from the shoulder area.

**Method of Measuring**

Hot poured crack sealant will be measured by the linear feet of cracks sealed.

**Basis of Payment**

The accepted quantities will be paid for at the contract unit price per linear feet.  
Payment will be made under:

<b><u>Pay Item</u></b>	<b><u>Pay Unit</u></b>
407.001 - Hot Applied Sealant	Linear Feet

**END OF SECTION**

## **Spec. # 407.002 – Mastic Crack Sealing and Super Stretch Hot Applied Sealant**

### **Description**

This work consists of furnishing and placing Crafcoc Mastic One Part Number 33339, or an approved equivalent in properly prepared cracks in asphalt pavements. The polymer modified asphalt mastic is a hot-applied, single component, pourable, aggregate filled product. Cracks with a width less than 1 inch (2.54cm) are not to be filled with the Mastic sealant material but shall be filled with an approved Hot Applied sealant as directed in Bid Item #2. All cracks greater than 1 inch are to be filled with hot pour mastic material per this specification. All work is to be completed at the direction of the Engineer.

### **Location**

For bidding purposes, the following locations listed at the end of this document shall be considered. Summit County may choose to remove or add any roads and adjust priorities at its discretion and will only pay at contract price.

### **Materials**

Material specifications for hot poured mastic shall be provided to Engineer for approval prior to commencing work. Using a mixture of different manufacturers' brands or different types of sealants is prohibited. If supplied in solid form the sealant material shall be cast in a plastic or other dissolvable liner having the capability of becoming part of the mastic sealing liquid. The sealant shall be delivered in the manufacturer's original sealed container. Each container shall be legibly marked with the manufacturer's name, the trade name of the sealer, the manufacturer's batch or lot number, the application temperature range, the recommended application temperature, and the safe heating temperature. The sealant shall be listed in CDOT's Approved Products List prior to use. The sealant may be pretested by the Department prior to use.

### **Construction Requirements**

Mastic material is only to be applied to clean, sound, dry surfaces. All areas must be clean from dust, dirt, grease, debris, loose materials, and any other matter that will inhibit the bonding of the repair compound. Do not apply on wet or frosted surfaces. Immediately before applying hot poured mastic sealant, the cracks shall be cleaned of loose and foreign matter to a depth approximately twice the crack width. Cleaning shall be performed using a **hot compressed air lance**. This lance shall be used to dry and warm the adjacent asphalt immediately prior to sealing. Direct flame dryers shall not be used.

The minimum pavement temperature for installation of crack seal and mastic is 40° F (4° C). Mastic shall be heated in a thermostatically controlled mastic mixer that utilizes oil as a heat transfer medium and has a full sweep horizontal agitator capable of gently lifting the material from the bottom of the reservoir and turning the material over and over. The melter must be equipped with an effective horizontal agitator system that is able to maintain a uniformly mixed product, capable of mixing and suspending materials with aggregates having a specific gravity as high as 3.0, have a thermostatically controlled hot oil jacketed heating system, and have an effective means of dispensing product. The heated repair mastic material at the recommended application temperature shall be dispensed onto the properly prepared repair area.

April 22, 2022

Immediately following application to the pavement surface, mastic shall be leveled and smoothed to the desired level using a straight metal squeegee. If necessary for deep installations, to limit settling and to produce a level finished surface, mastic shall be applied in layers with a cooling and solidifying time period between applications. Minimum installed thickness is 3/8 in (1 cm). The finished installation should be applied smooth and level with the pavement surface. For installations deeper than 2.5 in (6.3 cm), product should be installed in layers not exceeding 2.5 in thick (6.3 cm) with cooling to 200°F (93°C) maximum before applying the next layer. Installations over 2 in (5cm) deep can be bulked by adding up to 25% by volume of an approved, clean, dry 3/4 inch aggregate in layers for increased stability and quicker cooling.

After application, time must be given for the product to cool before opening the area to traffic. Cooling time will vary depending on the size of the application and ambient temperature. Generally, allow approximately 30 to 60 minutes of cooling for each 1 in (2.5 cm) of material depth.

Place appropriate traffic controls in accordance with part 6, Temporary Controls, of the FHWA Manual on Uniform Traffic Control Devices (MUTCD) to protect the work site for the duration of the repairs.

Sealant material picked up or pulled out after being placed shall be replaced at the CONTRACTOR'S expense. The CONTRACTOR shall have a blotter material available (Detack) on the project in the event it is required to prevent tracking or pulling.

Mobilization, traffic control and all necessary tools, equipment, and labor costs incidental to the preparation of the surface prior to application of the hot poured joint and crack sealant will not be paid for separately but shall be included in the work. The CONTRACTOR shall provide all lights, signs, barricades, flagmen or other devices necessary to provide for public safety in accordance with the current **CDOT Standard Specifications for Road and Bridge Construction**, the Manual on Uniform Traffic Control Devices for Streets and Highways and the Colorado Supplement thereto, in accordance with the Contract. Devices shall comply with NCHRP 350 criteria requirement. When a device is not in use, the CONTRACTOR may remove it from the project for the period it is not needed. Devices temporarily not in use shall, as a minimum, be removed from the shoulder area.

**Method of Measuring**

Hot poured mastic crack sealant will be measured by the pound.

**Basis of Payment**

The accepted quantities will be paid for at the contract unit price per pound.  
Payment will be made under:

<b><u>Pay Item</u></b>	<b><u>Pay Unit</u></b>
407.002 – Mastic Crack Sealing/Super Stretch Hot Applied Sealant	Per Pound

**END OF SECTION**

April 22, 2022

## **PROJECT LOCATIONS**

April 22, 2022

PROJECT LOCATIONS

Area	Road Name	CR #	Functional Class	Approx. Start	Approx. End	Road Length	Crack Seal	Mastic
<i>Crack Seal and Mastic</i>								
North Silverthorne	Ute Pass Rd	CR 15	Arterial	Hw 9	County Line	27626	27,626	0
Heeney	Heeney Rd	CR 30	Collector	Hwy 9	Otter Creek Rd	20800	20,800	0
Breckenridge	Tiger Rd	CR 6	Collector	County Line	Dirt Segment	6162	0	15000
Breckenridge	Revett Dr	CR 317	Local Access	Tiger Rd	Start of Townhomes	4289	4289	0
Breckenridge	Reiling Rd	CR 460	Collector	Huron Rd	Shepard Circle	1679	1679	0
Farmers Corner	West Lakeview Cir	CR 970	Local Access	Dickey Dr	Dickey Dr	2901	2901	0
Farmers Corner	East Lakeview Cir	CR 971	Local Access	Dickey Dr	Dickey Dr	2924	2924	0
Farmers Corner	Alpensee Dr	CR 974	Local Access	Jarelle	Jarelle	5030	5,030	0
							0	0
<b>TOTALS</b>							<b>65249 Ln Ft</b>	<b>15000 Ln Ft</b>