

Rocklin Unified School District

2615 Sierra Meadows Drive • Rocklin, CA 95677

Phone • (916) 624-2428 Ext 1306



May 17, 2023

TO: All Bidders
BID: Crackfill Summer 2023
SUBJECT: Addendum One

The following changes, omissions, and additions will apply to the bid, and to the proposal submissions, execution and completion of the project, and to the various parts of the work affected thereby. All other conditions shall remain the same.

Careful note of the addendum shall be taken by all parties of interest so the proper allowances may be made in strict accordance with the addendum, and that all contractors shall be fully advised in the performance of the work which will be required of them.

Bidder shall acknowledge receipt of the Addendum One.

Addendum One Notes:

- 1.) Clarification crackfill application is limited to school site playgrounds only, at the 12 District sites identified (Exhibit A).
- 2.) Site walk revealed that the Scope of work requires an update to reflect additional clarification for larger crack sizes and additional processing. Larger cracks can be treated as indicated in the updated scope of work (Exhibit A).

END ADDENDUM #1

Respectfully submitted.

Mike Stemple

Purchasing & Contracts Manager, Rocklin Unified School District

Exhibit A: Amended Scope of Work

Exhibit A - Scope of Work – Crackfill Summer 2023

GENERAL APPLICATION OF EMULSIFIED ASPHALT CRACK SEAL

APPLICATION OF CRACKFILL AS REQUIRED TO ASPHALT AREAS, TO **INCLUDE PLAYGROUNDS AND SMALLER KINDER PLAYGROUND AREAS ONLY**. THE WORK SITES INCLUDE THE 12 DISTRICT SITES IDENTIFIED. THE DISTRICT WILL COORDINATE ALL SITE ACCESS WITH BIDDER DAILY, OR AS REQUIRED.

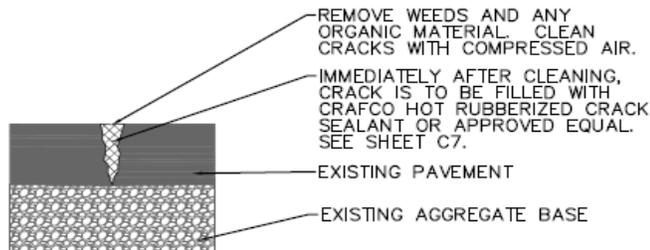
SEE CRACKFILL SPECIFICATION SHEET C-7 FOR ACCEPTABLE MATERIAL

THE DISTRICT HAS PROVIDED THE MAXIMUM LINEAR FEET (LFT) FOR EACH OF THE SITES, BIDDER IS RESPONSIBLE TO MAINTAIN AND LIMIT APPLICATION OF CRACKFILL TO THE MAXIMUM LFT FOR EACH SITE AND WILL NOT BE PAID FOR OVERAGES. THE DISTRICT REQUESTS THAT THE CONTRACTOR REVIEW EACH SITE AND MAP OUT A PLAN TO FILL THE LARGER WIDTH/ LONGEST CRACKS FIRST, THEN WORK DOWN PROGRESSIVELY IN CRACK WIDTH/LENGTH. THE PRIORITY IS TO FILL MORE DAMAGING CRACKS FIRST. (SEE BID SCHEDULE 1.1)

SEALANT APPLICATION TO ALL CRACKS AND JOINTS IN AND ADJACENT TO THE ASPHALT CONCRETE PAVEMENT. FOR CRACKS AND JOINTS 1/4 INCH AND WIDER, THE WORK CONSISTS OF CLEANING CRACKS AND DEBRIS REMOVAL, SWEEPER AS REQUIRED TO CLEAN SITE, REFER APPLICATION OF CRACKFILL.

ROUTING OF PAVEMENT CRACKS IS OPTIONAL BUT ROUTING IS RECOMMENDED. BIDDER TO SELECT ONE OF THE FOLLOWING OPTIONS FOR LARGER CRACKS: BACKER RODS, SAND, HOT ASPHALT, MASTIC GAP. CRACK SEALANT MATERIAL IS SUPER FLEX HT OR APPROVED EQUAL (SHEET C7).

POLYMER MODIFIED ASPHALT PAVEMENT SEAL COAT



NOTES:

CRACK WIDTHS 1/4"–1"

1. CRACK WIDTHS LESS THAN $\frac{1}{4}$ " SHALL NOT BE SEALED.

ASPHALT CRACK SEAL WITH HOT RUBBERIZED SEALANT

MATERIALS.

CRACK SEAL SHALL BE AN EMULSIFIED MATERIAL THAT CAN BE READILY HANDLED AT AMBIENT TEMPERATURES, CAN BE STORED FOR PERIODS OF UP TO SIX MONTHS, AND IS MADE WITH BASE MATERIALS THAT WILL REMAIN DUCTILE WITH AGING AND PROVIDE RESILIENCY UNDER EXTREME CLIMATIC CONDITIONS.

THE SEALANT SHALL CONTAIN NO VOLATILE ORGANIC COMPOUNDS WHICH

CONTRIBUTE TO AIR POLLUTION AND SHALL CONFORM TO THE REQUIREMENTS IN THE FOLLOWING TABLE:

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>REQUIREMENTS</u>
VISCOSITY @ 77 F (25 C), SFS	ASTM D-244-76	25-150
PUMPING STABILITY	GB METHOD (1)	PASS
5-DAY SETTLEMENT TEST, PERCENT	ASTM D-244-76	5.0 MAXIMUM
CEMENT MIXING TEST, PERCENT	ASTM D-244-76	2.0 MAXIMUM
SIEVE TEST, PERCENT	ASTM D-244-76	0.1 MAXIMUM
PARTICLE CHARGE TEST	ASTM D-244-76	POSITIVE
RESIDUE, PERCENT	ASTM D-244-76 (MOD) (3)	62 MINIMUM
TEST OF RESIDUE	ASTM D-244-76	
VISCOSITY AT 140 F (60 C), CS.	ASTM D-244-76	1000-4000

TESTING NOTES:

1. PUMPING STABILITY IS DETERMINED BY CHARGING 450 ML. OF EMULSION INTO A ONE-LITER BEAKER AND CIRCULATING EMULSION THROUGH A GEAR PUMP (ROPER 29 B22621) HAVING 1/4 INCH INLET AND OUTLET. THE EMULSION PASSES IF THERE IS NO SIGNIFICANT OIL SEPARATION AFTER CIRCULATING TEN MINUTES.

2. TEST PROCEDURE IDENTICAL WITH ASTM D-244 EXCEPT THAT DISTILLED WATER SHALL BE USED IN PLACE OF TWO PERCENT SODIUM OLEATE SOLUTION.

3. ASTM D-244 EVAPORATION TEST FOR PERCENT OF RESIDUE IS MODIFIED BY HEATING A 50 GRAM SAMPLE TO 300 F (149 C) UNTIL FOAMING CEASES, THEN COOLING IMMEDIATELY AND CALCULATING RESULTS. THE VENDOR SHALL FURNISH CERTIFICATION THAT THE CRACK SEALANT MATERIAL COMPLIES WITH THE ABOVE REQUIREMENTS. SAND COVER SHALL BE FREE FROM CLAY OR ORGANIC MATERIAL AND SHALL BE OF SUCH SIZE THAT FROM 90 PERCENT TO 100 PERCENT WILL PASS A NO.

4 SIEVE AND NOT MORE THAN 10 PERCENT WILL PASS A NO. 200 SIEVE.

APPLICATION OF CRACKFILL

IMMEDIATELY BEFORE APPLYING THE SEALANT, CRACKS AND JOINTS SHALL BE CLEANED BY MECHANICAL OR HAND METHODS FOLLOWED BY BLAST CLEANING WITH HIGH-PRESSURE AIR JETS TO REMOVE ALL RESIDUE AND FOREIGN MATERIAL IN CRACK TO A MINIMUM DEPTH OF THREE-QUARTER (3/4) INCH. WATER JETS SHALL NOT BE ALLOWED. CRACK SURFACES SHALL BE SURFACE DRY AT THE TIME THE SEALANT IS APPLIED.

CRACK SEALANT MATERIAL MAY BE SPREAD WITH ANY TYPE NOZZLE OR DEVICE THAT WILL PLACE THE MATERIAL WITHIN THE SPECIFIED TEMPERATURE RANGE AND TO THE DIMENSIONS SHOWN ON THE PLANS AND IS APPROVED FOR USE BY THE ENGINEER.

CRACK SEALANT SHALL BE PLACED AT A TEMPERATURE SUCH THAT THE SEALANT TEMPERATURE PLUS AIR TEMPERATURE FALLS WITHIN A RANGE OF 150 TO 200 DEGREES FAHRENHEIT.

WHEN CURED, CRACK SEALANT SHALL BE AT LEAST FLUSH WITH THE PAVEMENT SURFACE OR EXTEND NO MORE THAN ONE-EIGHTH (1/8) INCH ABOVE THE PAVEMENT SURFACE. **NOTE: THE COMMON PRACTICE OF “BAND-AIDING” A THICK RIBBON OF CRACK SEALANT TO THE PAVEMENT SURFACE IS NOT ACCEPTABLE.**

CRACKS SHALL BE COVERED WITH CLEAN SAND AS REQUIRED IMMEDIATELY FOLLOWING PLACEMENT OF THE SEALANT MATERIAL TO PREVENT TRACKING OF SEALANT BY VEHICLES OR PEDESTRIANS. **IF CRACK SEALANT MATERIAL IS LOW TACK SANDING IS NOT REQUIRED.**

A LIGHT BROOMING SHALL BE PERFORMED TO REMOVE LOOSE SAND BEFORE TO THE END OF EACH DAY'S WORK OR AS A FIRST ORDER OF WORK ON THE MORNING FOLLOWING APPLICATION OF THE SAND COVER. ANY REMAINING APPLIED SAND SHALL BE BLOWN DOWN AND SWEEPED UP TO PREVENT SLIP HAZARDS. THE EXACT TIME OF BROOMING WILL BE DETERMINED BY THE ENGINEER.

School Site Address Location

School Name	Address
Cobblestone Elementary	5740 Cobblestone Drive, Rocklin CA 95765
Breen Elementary	2751 Breen Drive, Rocklin CA 95765
Parker Whitney Elementary	5145 Topaz Ave, Rocklin CA 95677
Ruhkala Elementary	6530 Turnstone Way, Rocklin CA 95765
Sierra Elementary	6811 Camborne Way, Rocklin CA 95677
Valley View Elementary	3000 Crest Drive, Rocklin CA 95765
Sunset Ranch Elementary	2500 Bridlewood Drive, Rocklin CA 95765
Spring View Middle School	5040 Fifth Street, Rocklin CA 95677
Antelope Creek Elementary	6185 Springview Drive, Rocklin CA 95677
Rock Creek Elementary	2140 Collet Quarry Drive, Rocklin CA 95765
Rocklin Elementary	5025 Meyers Street, Rocklin CA 95677
Twin Oaks Elementary	2835 Club Drive, Rocklin CA95765

SHEET C-7

HOT- APPLIED RUBBERIZED CRACK SEALANT – Product Data Sheet



PRODUCT DATA SHEET
SUPERFLEX HT
 PART NO. 34533

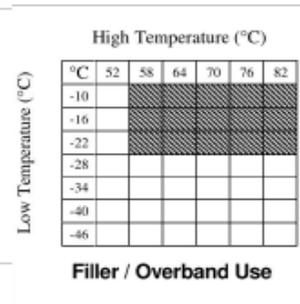
SEPTEMBER 2016

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 www.crafco.com

READ BEFORE USING THIS PRODUCT

GENERAL Crafco Superflex HT sealant is a hot-applied asphalt based product used to fill cracks in asphalt concrete or Portland cement concrete pavements in moderate to very hot climates. Superflex HT is supplied in solid form which when melted and properly applied forms an adhesive and flexible compound that resists cracking in the winter and is highly resistant to tracking or pick-up by vehicle tires in hot climates. Superflex HT is used in highway, street, airfield and parking lot pavements and is applied to pavement cracks using either pressure feed melter applicators or pour pots. At application temperature, Superflex HT is a low viscosity, self-leveling product which easily penetrates narrow cracks. Superflex HT can be melted in jacketed double type melting units, or in small direct bottom fired types of melters. Both melter types must have sufficient agitation and temperature indicating devices to assure that the material is heated to and maintained within the specified application temperature range of 380° to 400°F (193 to 204°C). VOC = 0 g/l.

USAGE GUIDELINES Superflex HT is applicable for Filler/Overband Use in moderate to very hot climates with high and low pavement temperatures identified in the chart. Pavement temperatures for the project location are determined at 98% reliability using FHWA LTPPBind V 3.1, and sealant or filler use is determined following Crafco Product Selection procedures.



Applicable Pavement Temperatures

SPECIFICATION CONFORMANCE Crafco Superflex HT meets the following requirements when heated to the maximum heating temperature in accordance with ASTM D5167:

<u>Tests</u>	<u>Specification Limits</u>
Softening Point (ASTM D36)	210°F (99°C) min.
Flexibility, 1/8" (3.2 mm) specimen, 90° bend, 10 sec., 1" (25mm) mandrel (ASTM D3111 modified)	Pass at 0°F (-18°C)
Cone Penetration (ASTM 5329)	45 max.
Flow, 140°F (60°C), 5 hr. (ASTM D5329)	0 mm.
Elongation 77°F (25°C) (ASTM D412 die C)	1000% min.
Opening to Traffic Time	30 minute max.
Maximum Heating Temperature	400°F (204°C)
Application Temperature Range	380-400°F (193-204°C)

INSTALLATION The unit weight of Crafco Superflex HT is 9.2 lbs./gal. (1.10 kg/L) at 60°F (15.5°C). Prior to use, the user must read and follow Installation Instructions for Superflex Sealants to verify proper product selection, heating methods, pavement preparation procedures, application geometry, usage precautions and safety procedures. These instructions are provided with each pallet of sealant

PACKAGING Product is supplied in either cardboard boxes, or in meltable, boxless PLEXI-melt packaging. Both package types are labeled in accordance with OSHA, GHS, and specification requirements; are sold by net weight; are interlock stacked on 48 x 40 in. (122 x102 cm) 4-way pallets; can be stored outside; and are covered with a weather resistant pallet cover and 2 layers of UV protected stretch wrap.

- o **BOX** packaging consists of cardboard boxes containing approximately 30 lb. (13.6 kg) of product with 75 boxes per pallet, weighing approximately 2250 lb. (1020 kg). Boxes contain a quick melting release film for easy removal and are taped closed, without any staples.
- o **PLEXI-melt** packaging consists of 30 lb. (13.6 kg) blocks of product with 70 packages per pallet, weighing 2100 lb. (952 kg). To use, the pallet wrap is removed, and individual blocks are placed in the melter. There are no cardboard boxes or other cardboard components to open, empty, handle, or dispose of. PLEXI-melt packaging quickly melts into the product without affecting specification conformance.

WARRANTY CRAFTCO, Inc. warrants that CRAFTCO products meet applicable ASTM, AASHTO, Federal or State specifications at time of shipment. Techniques used for the preparation of the cracks and joints prior to sealing or filling are beyond our control as are the use and application of the products; therefore, Crafco shall not be responsible for improperly applied or misused products. Remedies against Crafco, Inc., as agreed to by Crafco, are limited to replacing nonconforming product or refund (full or partial) of purchase price from Crafco, Inc. All claims for breach of this warranty must be made within three (3) months of the date of use or twelve (12) months from the date of delivery by Crafco, Inc. whichever is earlier. There shall be no other warranties expressed or implied. **For optimum performance, follow Crafco recommendations for product installation.**