

**CITY OF NAPLES  
PURCHASING DIVISION  
CITY HALL, 735 8<sup>TH</sup> STREET SOUTH  
NAPLES, FLORIDA 34102  
PH: 239-213-7100 FX: 239-213-7105**

**ADDENDUM NUMBER 3**

NOTIFICATION DATE:	BID TITLE:	BID NUMBER:	BID OPENING DATE & TIME:
<b>01/06/12</b>	<b>Pavement Management Services</b>	<b>009-12</b>	<b>01/11/12 2:00PM</b>

**THE FOLLOWING INFORMATION IS HEREBY INCORPORATED INTO,  
AND MADE AN OFFICIAL PART OF THE ABOVE REFERENCED BID.**

The specification for crack sealing is attached.

**IMPORTANT MESSAGE**

**PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID COVER SHEET.**

## **2.4 CRACK SEALING BY POLYESTER REINFORCED ASPHALT METHOD (OR EQUAL)**

The work covered by this section of the specifications consists of furnishing all labor, equipment and materials necessary to perform all operations in connection with the cleaning and sealing of construction and random cracks in bituminous concrete pavements, including the removal of vegetation from the cracks.

### **Material**

Crack Sealer shall be an asphalt-fiber compound designed especially for improving strength and performance of the parent asphalt sealant.

Asphalt sealant shall be AC-10, AC-20 or AC 30 with a penetration of 75-100. Fiber reinforcing materials shall be short-length polyester fiber having the following properties:

Length: 7mm  
Diameter: 0.0008 inch plus or minus .0001 inch  
Specific Gravity: 1.32 to 1.40  
Melt Temperature: 480 degrees F. minimum  
Ignition Temperature: 1000 degrees F. minimum  
Tensile Strength: 75000 PSI plus or minus 5000 PSI  
Break Elongation: 33% plus or minus 9% they are fully drawn

Asphalt-fiber compound shall be mixed at a rate of 5-8% fiber weight to weight of asphalt cement. This compound having the same chemical base provides compatibility and excellent bond strengths. The fiber function is to redistribute high stress and strain concentrations that are imposed on the sealant by thermal sources, traffic loading, etc.

### **Equipment**

Equipment used in the performance of the work required by this section of the specifications shall be subject to the engineer and maintained in a satisfactory working condition at all times.

Air Compressor: Air Compressor shall be capable of furnishing no less than 150 cubic feet of air per minute at not less than 90 PSI pressure at the nozzle.

Hand tools shall consist of brooms, shovels, metal bars with chisel shaped ends, and any other tools which may be satisfactorily used to accomplish this work.

### **IMPORTANT MESSAGE**

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**Melting Kettle and Extruder:** The unit used to melt the joint sealing compound shall be double boiler, indirect fired type. The space between the inner and outer shells shall be filled with suitable transfer oil or substitute having a flash point of not less than 600 degrees F. The kettle shall be equipped with a satisfactory means of agitating the compound and stirring with mechanically operated paddles and/or by a continuous circulation gear pump attached to the thermostatic control calibrated between 200 degrees F. and 550 degrees F.

Air wands with operator shall be incorporated with 150 cubic foot compressor to clean cracks immediately before filling with polyester reinforced asphalt material.

Extruder shall be able to fill cracks with two wands. Each wand shall have removable heads so that variable width overband from 2 to 4 inches may be installed

All equipment shall be truck mounted and capable of extruding one thousand gallons per day.

#### Preparation of cracks

**Debris removal:** all cracks shall be blown clean by high pressure air. All old material and other debris removed from the cracks shall be removed from the pavement surface immediately by means of sweepers, hard brooms or air brooms.

**Vegetation:** When cracks show evidence of vegetation, it shall be removed and sterilized by use of propane torch unit eliminating all vegetation, dirt, moisture and seeds.

**General:** No crack sealing material shall be applied in wet cracks or where frost, snow or ice is present nor when ambient temperature is below 25 degrees F.

#### Preparation and placement of sealer

Joint sealing material shall be heated and applied at a temperature specified by the manufacturer and approved by their engineer. Minimum application temperature shall be 290 degrees F.

Sealer shall be delivered to the pavement surface through a pressure hose line and applicator shoe. The shoe width and sealer over banding area vary between 2" to 4" dependant on severity of cracks. When traffic requires immediate use of the roadway, a boiler slag aggregate shall be broadcast over cracks to prevent sealer pickup.

#### IMPORTANT MESSAGE

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#### Workmanship

All workmanship shall be of the highest quality, and excess spilled sealer shall be removed from the pavement surface by approved methods and discarded. Any workmanship determined to be below standards of the particular craft involved will not be accepted, and will be corrected and/or replaced as required by the engineer in charge.

Manufacturer's certificate of material compliance will be furnished to the DISTRICT certifying conformance to the above material specifications.

#### Measurement of payment

Measurement for crack fill shall be paid by the gallon and shall be the actual number of gallons of polyester asphalt material applied to the pavement. Payment shall be at the unit price as noted in the Compensation Schedule and shall be complete payment for the entire item including furnishing, preparation and placing of materials including labor and equipment to be used on this project.

IMPORTANT MESSAGE

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