COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 2901-10

Product Evaluation Coordinator
Colorado Department of Transportation
4670 North Holly Street, Unit A
Denver, Colorado 80216

Material code: 518.03.01.00

FOR INTERNAL CDOT USE

Material code description full name: Expansion Device, Asphaltic

PART 1

Product name: Matrix 502 (Lot #T3478)

Product category: Sealant [Joint & Crack]\Asphaltic Plug Joints\NA

Product representative (name & address):
Attn: Richard Miles
Bowman Construction Supply
10801 East 54th Avenue
Denver, CO 80239
Phone: (303) 696-8960 FAX: (303) 696-0620

Manufacturer (name & address):
Attn: Bob Rose
The D.S. Brown Company
300 East Cherry Street
North Baltimore, OH 45872
Phone: (419) 257-3561 FAX: (419) 257-2200

Web-site address: www.bowmanconstructionsupply.com

Web-site address: www.dsbrown.com

Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
The Matrix 502 Asphaltic Plug Joint System is a hot-applied, field molded and constructed expansion joint system that is primarily composed of a uniquely formulated polymer modified asphalt binder that is mixed with a specially selected and processed aggregate. The Matrix 502 Joint provides a water-tight, smooth-riding joint that can accommodate up to a maximum of plus or minus 3/4" of annual joint movement and can be used for expansion joint gaps up to 3" wide. Minimum depth is 2" and the minimum width is 20" (not recommended to exceed 24"). Installation temperatures should be 40°F and rising for both ambient air and deck temperatures. Optimal installation temperature is 60-80°F.

Restrictions, (installation and/or use):
Matrix 502 should not be used for expansion joints with more than plus or minus 3/4" of annual joint movement. Joint gap should not be more than 3".

Use of the product, (be specific to CDOT highway activities only):
Bridge Expansion Device (0-2") and Bridge Expansion Joint (Asphaltic Plug)

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
Compared to conventional anchored bridge expansion joint systems, Matrix 502 joints are low cost, quick and easy to install, and easy to maintain.

Specifications, (listing those applicable is required) **& Certificate of Compliance** (required to certify compliance with listed specifications):

- ☐ CDOT :
- ☒ ASTM : D 6297-01
- ☐ AASHTO :
- ☐ FHWA :
- ☐ other :

Product testing, (from national/independent laboratories or universities) **& Certified Test Report** (CTR required to validate all claims):

- ☐ NTPEP-AASHTO :
- ☐ FHWA :
- ☐ other :
- ☒ other : Western Technologies, Inc. (08-13-2007)

State DOT Approvals, (current documentation required):

Sample submitted: ☐ yes ☒ no ☐ n/a | Materials Safety Data Sheets (MSDS): ☒ yes ☐ no ☐ n/a

Notes/Additional Comments
This product is manufactured by Crafco, Inc. (Thomas Kelly, 420 North Roosevelt Ave, Chandler, AZ 85266) and marketed nationally exclusively by The D.S. Brown Company. It has been previously manufactured by Pavetech International for The D.S. Brown Company. It has always been identified by the Matrix 502 product name.