COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

Reference No. 2029-02

Materials Laboratory
Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222

PART 1: Completed by Product Representative
PART 2: Completed by CDOT Product Evaluation Coordinator
PART 3: Completed by CDOT Expert Product Evaluator
PART 4: Completed by CDOT Materials Engineer

PART 1

Product name: StructureSet

Product category: M & S Standards\Ground Sign Installation: Polyurethane Foam

Product representative (name & address):
PolyBackfill, Inc. {Ralph Hixson}
2129 Hendricks Drive, #128
Arlington, TX 76011-3438
Phone: (817) 548-8231 FAX: (817) 548-8231

Manufacturer (name & address):
PolyBackfill, Inc.
2129 Hendricks Drive, #128
Arlington, TX 76011
Phone: (817) 548-8231 FAX: (817) 548-8231

Description of product, (be precise, include product differentiation between your products &/or competitor's products):
StructureSet is a non-hazardous polyurethane foam. It consists of two component liquids that create a solid, which expands and hardens within 20 minutes of mixing. The expanded solid material is approximately 8 times the volume of the two component liquids. StructureSet can be used in any temperature. A foundation material for use with breakaway sign post systems.

Usage of product, (be specific to CDOT highway activities only):
Backfilling around small and large signs, as well as utility poles and street lights.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
PolyBackfill, Inc. provides engineering at no cost for the foundation design of large signs. The savings in labor more than justifies the additional cost of StructureSet over concrete. StructureSet has proved that it can sustain hurricane force winds.

Specifications, (identify specifically those applicable) **& Certificate of Compliance** (submittal required):

- ☐ CDOT :
- ☐ ASTM :
- ☐ AASHTO:
- ■ FHWA : NCHRP 350, HSA-1& HSA-10\SS-86A
- ☐ other :

Product testing, (national/independent laboratories) **& Certified Test Report** (submittal required):

- ☐ NTPEP-AASHTO:
- ☐ HITEC or FHWA :
- ☐ FHWA or other :
- ■ other : Texas Transportation Institute

State DOT Approvals, (current documentation required):
Georgia, Mississippi, Texas

Evaluation Procedure, (recommended):

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

Notes/Additional Comments
Field tests have been performed by CDOT Maintenance in Montrose, Greeley, and Pueblo. Montana DOT Maintenance has also utilized this product successfully.

Manufacturer's Web-site address: Submit >