COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

Reference No. 2217-04

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:
Stamark, High Performance Tape, White (Series 380I)

Product category:
TC\PMM\Perm., Preformed, Plastic Tape, Type I

Product representative (name & address):
3M Traffic Safety Systems Division {Ted Denisuk}
9957 East 7th Avenue
Aurora, CO 80010
Phone: (303) 344-9423 FAX: (303) 344-2161

Manufacturer (name & address):
3M Company-Traffic Safety Systems Division
3M Center, Building 225-5S-08
St. Paul, MN 55133-3225
Phone: (800) 553-1380 FAX: (800) 591-9293

Description of product, (be precise, include product differentiation between your products &/or competitor's products):
Series 380I is a white, premium patterned, high performanace, highly durable, high retro-reflective preformed pavement marking tape. Abrasion-resistant microcrystalline ceramic beads are bonded in a highly durable polyurethane topcoat. The microcrystalline ceramic bead is harder (1,000 KHN) and has higher crush strength than a standard glass bead (650 KHN) found in other tapes. These characteristics of increased hardness and crush strength provide superior durability to the bead resulting in improved reflectivity retention. Competitive tapes specify initial reflectivity values that are typically half the brightness value of 380I. 12 month PA 2002 NTPEP test deck 380I- 628 mcd, ATM 300 158 mcd (ACC, skip line position). Minimum temperature application is 60° F.

Usage of product, (be specific to CDOT highway activities only):
Designed for longitudinal and word / symbol markings subjected to high traffic volumes and severe wear conditions.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
Patterned design provides a near vertical face to traffic to maximize reflectivity and provide wet recovery in rain conditions that flat tapes do not, resulting in safer driving conditions for the motoring public. The superior durability of 380I tapes also means extended life road presence, offering less frequent restriping resulting in fewer traffic disruptions. 48 month warranty vs 12-16 month for competitive tapes. Extended road presence results in cost savings and reduces CDOT maintenance crew exposure. Local representative routinely provides project oversight to assist with proper surface preparation and application.

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

- ■ CDOT : Standard Specification 627 & 713.13, Type I
- ■ ASTM : D 4505-01a
- ☐ AASHTO:
- ☐ FHWA :
- ■ other : COC (08/19/04)

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

- ■ NTPEP-AASHTO: Pennsylvania NTPEP 2002
- ☐ HITEC or FHWA :
- ■ FHWA or other : FHWA finding in the public interest letter for Arizona DOT dated 05/27/03
- ■ other : Stork Materials Technology, Twin Cities Testing Corp. (06/30/04)

State DOT Approvals, (current documentation required):
AL, AZ, AR, FL, GA, CO, IL, KS, MD, MA, MI, MN, MO, NE, NV, ND, NH, TN, UT

Evaluation Procedure, (recommended):
Review NTPEP test data in this submittal, and field inspection of projects installed on CDOT highways

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

Notes/Additional Comments
Stamark Series 380I is currently on the Approved Products List, and has been successfully used on over 215 CDOT projects since 1994.

Manufacturer's Web-site address: www.3M.com

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