COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

Reference No. 2223-04

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, Intersection Grade Tape, White (Series 420)

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

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 420 is a white, premium Intersection Grade, durable, conformable, retroreflective preformed pavement marking tape. Made of high-quality polymeric materials, pigments, glass beads and ceramic skid particles. 420 Series tapes are designed for high-wear areas such as crosswalks, stop bars, gore markings and symbols and legends. Tough .005 inch thick urethane topcoat is designed for increased durability. Competitive tapes specify initial reflectivity values that are typically 30-40% lower (3M Series 420 -700 mcd vs ATM 300 & 400 -500 mcd @ 86.0 entrance angle/ 0.2 observation angle). Ceramic skid particles enhance pedestrian safety. Series 420 tape carries a 24 month warranty for road presence and non wear-through when inlaid in new asphalt. Minimum temperature application is 60° F.

Usage of product, (be specific to CDOT highway activities only):
Designed for crosswalks, stopbars, gore markings and symbol and legend markings subjected to high volume 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):
Superior durability of 420 means extended life road presence, offering less frequent restriping resulting in fewer traffic disruptions. 24 month inlay warranty results in cost savings and reduces CDOT maintenance crew exposure. Excellent daytime color/presence enhances safety for motorists, while the ceramic skid particles improves safety for pedestrians and bicycles. Local representative routinely assists with surface preparation and application oversight.

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

- ■ CDOT : Standard Specification 627 & 713.13, Type II
- ■ 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 :
- ■ other : Stork Materials Testing, Twin Cities Testing Corp. (06/30/04)

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

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

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

Notes/Additional Comments
Stamark Series 420 is referenced as CDOT Type "B" in the CDOT Safety and Traffic Engineering Branch Project Special Provisions to the 1999 Standard Specifications. 420 - Type "B" material has been successfully used on over 155 CDOT projects since 1994.

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

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