COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

Reference No. 2401-02

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: Snowbright Hydrate/Hydrated Lime

Product category: Asphalt\Lime, Hydrated

Product representative (name & address):
Pete Lien and Sons, Inc. {Dan Michael}
P.O. Box 440
Rapid City, SD 57709
Phone: (605) 342-7224 FAX: (605) 342-6979

Manufacturer (name & address):
Pete Lien and Sons, Inc. {Dan Michael}
P.O. Box 440
Rapid City, SD 57709
Phone: (605) 342-7224 FAX: (605) 342-6979

Description of product, (be precise, include product differentiation between your products &/or competitor's products):
Pete Lien and Sons hydrated lime is a finely classified bulk calcium hydroxide product, produced in Laporte, CO and Rapid City, SD. The product is a lightweight dry white powder, shipped pneumatically to contractor hot mix portable and stationary plants. The product is transferred to customer supplied storage tanks, where it is stored for use as an asphalt mix additive. Pete Lien and Sons, with our facility in Laporte, CO provides the customer with high quality hydrated lime, on a quick ship basis, thus minimizing the potential of extended plant down time due to product availability.

Usage of product, (be specific to CDOT highway activities only):
Product is used as an anti-strip agent in hot plant mix bituminous pavement. It is blended with aggregates prior to feed into the plant.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
Hydrated lime reduces the tendency of asphalt to strip from aggregates in hot mix asphalt pavements. This stripping characteristic is variable, and depends on various parameters including climate, lime concentration, and aggregate source. Colorado aggregates show high levels of stripping. It is accentuated by the high degree of freeze/thaw cycles experienced during typical Colorado winters. By reducing the stripping, the life of the pavement is lengthened, and thus, the the life cycle cost is enhanced.

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

- [x] CDOT : Standard & Specifications, Sub-section 712.03
- [x] ASTM : ASTM C207, ASTM C110
- [ ] AASHTO:
- [ ] FHWA :
- [ ] other :

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

- [ ] NTPEP-AASHTO:
- [ ] HITEC or FHWA :
- [ ] FHWA or other :
- [x] other : Standard Laboratories of Billings Montana

State DOT Approvals, (current documentation required):
None required in States presently sold to (Montana, South Dakota, North Dakota, Wyoming, Nebraska).

Evaluation Procedure, (recommended):
Periodic in-house testing, corroborated by quarterly or monthly certification by independent lab.

Sample submitted: [ ] yes [x] no [ ] n/a | Materials Safety Data Sheets (MSDS): [x] yes [ ] no [ ] n/a

Notes/Additional Comments
Samples for analysis or mix design are available at no charge upon request. Pete Lien and Sons presently tests product on a daily basis to ensure quality control. In-house test results are also available upon request. Six month independent test results are not presently available, but will be forwarded as they become available.

Manufacturer's Web-site address: None

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