Selecting Proper Pavement Marking
Questions to Ask

- What type of pavement PCC or HMA
- New or Existing Pavement
- Condition of Pavement
New or existing Pavement

New Pavement

- PCC pavement will require the most preparation, curing compounds must be removed to allow a proper bond. Blast equipment, water, sand or shot, are the best for removing the compound.

- HMA Pavement requires the least preparation, but the contractor should remove all dirt and dust.

Existing Pavement

- Pavement having been previously marked and a different product is to be installed, the existing markings must be removed 80%. Thermoplastic, and Preformed tape will require an adhesive to be applied.
Conditions Of The Pavement

- Roadways that receive annual crack sealing and patching are candidates for paint pavement marking.

- As the pavement marking products last longer and perform better in reflectivity, you have to consider the loss of value if the road is repaired.

- Snow plow damage has created a new problem to pavement marking, Grooving the pavement to accept the markings is one way around this.
PCC Pavement
Products That Work

Paint Marking
- Life 1 year, turning traffic will reduce life and reflectivity

Epoxy Markings
- Life 3 years very durable, holds glass beads, Good reflectivity, UV effects the color

Poly Urethane
- Same as Epoxy but more color stable
PCC Pavement
Products That Work

Poly Urea
- Life 4 years, very durable, excellent color retention, and very good glass bead retention and reflectivity

Preformed Tape
- Life 2 to 3 years surface applied, 5 to 6 years in a grooved slot.
- Tape reflectivity varies with the traffic and type of installation, generally the tape product adheres but the tape will lose the reflectivity.
HMA Pavement
Products That Work

Paint Markings
- Life 1 year, turning traffic will reduce life and reflectivity.

Hot Thermoplastic
- Life 3 to 4 years, very durable in heavy traffic patterns, reflectivity is good for the life of the line due to intermix glass beads. Expect plow damage.

Epoxy, Poly Urethane, & Poly Urea
- These products bond well work the same as on PCC.
HMA Pavement Products That Work

Preformed Tape

- Life of surfaced applied 3 to 4 years, inlayed into a hot mat at 150 degrees 4 to 5 years, installed in grooved pavement 5 to 6 years.

- Tape reflectivity varies with the traffic and type of installation, generally the tape product adheres but the tape will lose the reflectivity.
On the Horizon

- MUTCD Spec for Minimum Retroreflectivity.

- Performance Spec Pavement Markings.
Questions

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