

# PRODUCT DATA

## DESCRIPTION:

- Specially-designed preformed thermoplastic material that's inlaid into imprinted asphalt using StreetHeat® asphalt reheating technology
- Inlaying DuraTherm® into asphalt protects it from wear and ensures that it retains its attractive look for years
- DuraTherm® enhances both the beauty of neighborhoods and pedestrian safety among shared roadway users
- Designed specifically for high-traffic crosswalks
- Provides optimum wear in adverse conditions
- Snowplow friendly
- Eliminates the maintenance and safety concerns of loose pavers

## APPLICATION:

### Only applied by TrafficScapes™ Certified Applicators

1. HMA pavement is heated with approved auto-reciprocating infrared heater to approx. 325°F
2. Templates are impressed into the heated HMA using vibratory plate compactors to imprint the surface with the desired pattern
3. DuraTherm® thermoplastic, pre-cut to match the pattern, is then placed within the imprinted depressions and heated until molten using the approved auto-reciprocating infrared heater

## GENERAL

- DuraTherm® thermoplastic consists of non-hazardous polymer resins, anti-skid elements, pigments, fillers consisting of TiO<sup>2</sup> and CaCO<sup>3</sup>
- No solvents or volatiles
- Can be stored indoors for 12 months protected from the elements
- Resistant to deterioration by sunlight, gasoline, oils, water, salt and adverse weather conditions
- DuraTherm thermoplastic is provided as non-reflective
- Suitable for application on high quality, stable HMA pavement, both new and old

## PRODUCT DATA

CHARACTERISTIC	TEST METHOD	TYPICAL RESULTS
Water Absorption	ASTM D570	<0.5%
Binder Content	AASHTO T250	>18%
Softening Point	ASTM D36	>220°F
Low Temp. Resistance	AASHTO T250	No visual cracks
Specific Gravity	ASTM D792	< 2.15
Indentation Resistance (Shore A)	ASTM D 2240	43
Impact Resistance	ASTM D256, Mtd A	> 30 in.-lb.
Flash Point	ASTM D92	>475°F

## SKID RESISTANCE

Anti-skid materials added at time of manufacturing

## THICKNESS

Supplied preformed at a standard thickness of 90 mils (2.30 mm).

## REFERENCES

- **ASTM D570** Standard Test Method for water absorption of plastics.
- **ASTM D36** Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus).
- **AASHTO T250** Binder Content
- **ASTM D792** Standard Test method for density and specific gravity (relative density) and density of solid plastics.
- **AASHTO T250** Low Temperature Stress resistance
- **ASTM D 2240** Standard Test Method for Rubber property – Durometer hardness.
- **ASTM D256, Method A** Standard Test Method for determining the IZOD pendulum impact resistance of plastics.
- **ASTM D92** Test Method for Flash points.

