# High Performance Stripe (HPS) Series

## HPS 8 Integrated Multi-Polymer

# PRODUCT DATA

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| Product Type: | HPS 8 Integrated Multi-Polymer Extrude | |
| Product Code: | 884900 | 884901 |
| Product Color: | White | Lead Free Yellow |
| Description: | IMP WHT HPS 8 EXTRD | |
| | IMP LF YEL HPS 8 EXTRD | |
| Specification: | Ennis-Flint HPS 8 | |
| Effective Date: | August 1, 2014 | |

### Product Description:

Ennis-Flint's HPS 8 Integrated Multi-Polymer Extrude is a unique binder system composed of a series of polymers designed for high abrasion and impact resistance similar to traditional high durable systems such as MMA and epoxy. However, due to the thermoplastic nature of these polymers, HPS-8 is 100% solids and can be applied by standard thermoplastic extrude equipment at thicknesses as low as 50 mil and up to 120 mil. The polymers in HPS-8 also offer superior adhesion and can be applied to Portland cement without a primer. Long-term retro reflectivity is assured through an intermix of both types 1 and 3 beads. Upon cooling to normal pavement temperature, HPS 8 provides a very durable marking material for low and high volume traffic areas.

### Product Advantages:

•Impact and abrasion resistance equal to traditional high durability binder systems
•Ability to be applied with standard thermoplastic extrude equipment.
•Fast set up keeps traffic control to a minimum when striping
•A low cost per useful life durable form of delineation
•No primer required on concrete or old asphalt

### Packaging:

HPS 8 is sold in one ton increments (2000 pounds). The ton is divided into 40 heat degradable bags each weighing approximately 50 pounds.

### Storage:

The shelf life of the product is one year from date of manufacture with proper storage. Proper storage includes inside or covered to prevent from moisture, and below 120F. Outside storage for short intervals is acceptable as long as the material is kept dry.

### Conditions for Application:

All surfaces must be clean, dry and free from oil, grease, antifreeze, loose sand, aggregate and chipping/peeling existing striping. Any curing compounds used on new concrete must be mechanically abraded off prior to striping and use of a primer may not be required. Concrete should be allowed to cure 14 days. When in doubt, always test adhesion. While HPS-8 may be installed behind the paver once the material cools, new asphalt should be allowed to cure for a minimum of 14 days to maximize adhesion and durability. HPS-8 must be melted to a temperature of at least 425°F (218°C), mixed well and applied in a molten/liquid state to the pavement. Roadway surface temperature at the time of application should be 50°F (10°C) and rising.

### Coverage:

One tons yields approximately 6000 feet of 4" stripe @ 90 mils – surface texture will decrease the yield.

### Physical Characteristics:

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| **% Binder** | **22% minimum** |
| **% Glass:** | **50% minimum** |
| **Intermix glass spec:** | **M-247 types 1 & 3** |
| **% TiO2 in the white:** | **10% minimum** |
| **595B color, white:** | **17886** |
| **595B color, yellow:** | **13538** |
| **White Reflectance (Y value):** | **75 minimum** |
| **Yellow Reflectance (Y value):** | **45 minimum** |
| **Minimum Impact Resistance:** | **60 inch pounds** |
| **Yellowness index, white:** | **0.12 maximum** |
| **Izod Impact Resistance – $0^0$ C** | **10.1 inch pounds** |
| **Izod Impact Resistance –$22^0$ C** | **12.0 inch pounds** |
| **Taber Abrasion** | **118 mg** |

**Dry Time:** With drop on glass beads applied, HPS-8 shall be sufficiently tack-free to carry traffic in not more than 2 minutes when pavement surface temperature is at 50°F, and not more than 10 minutes when pavement surface temperature is 130°F.

**Limitations:** Applying a test strip to determine if surface is dry enough if there has been rain in the last 24 hours.
•Do not apply if hot material shows moisture bubbles.
•Do not heat HPS-8 above 450°F.
•Do not apply when road and ambient temperatures are below 50°F.
•Do not apply when temperatures are near or below the dew point.
•Material at application is hot – please wear personal protective equipment as described in MSDS



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