

# HPS-8 Integrated Multi-Polymer

## High Performance System (HPS)

## PRODUCT DATA

Product Type: HPS-8 Integrated Multi-Polymer Extrude  
Product Code: 884900      884901      884910  
Product Color: White      Lead Free Yellow      Black  
Description: IMP WHT HPS 8 EXTRD  
IMP LF YEL HPS 8 EXTRD  
Specification: Ennis-Flint HPS-8  
Effective Date: March 16, 2023

### Product Description:

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 nature of these polymers, HPS-8 is 100% solids and can be applied by standard thermoplastic extrude equipment at thicknesses as low as 50 mils and up to 120 mils. The polymers in HPS-8 also offer superior adhesion. Long-term retroreflectivity is ensured through an intermix of both Type 1 and Type 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

### 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 120°F. 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 ton yields approximately 6000 feet of 4" stripe @ 90 mils – surface texture will decrease the yield.

### Physical Characteristics:

<b>% Binder:</b>	<b>21% minimum</b>
<b>% Glass:</b>	<b>38% minimum</b>
<b>Intermix glass spec:</b>	<b>M-247 Types 1 &amp; 3</b>
<b>% TiO<sub>2</sub> in the white:</b>	<b>10% minimum</b>
<b>595B color, white:</b>	<b>17886</b>
<b>595B color, yellow:</b>	<b>13538</b>
<b>White Reflectance (Y value):</b>	<b>75 minimum</b>
<b>Yellow Reflectance (Y value):</b>	<b>45 minimum</b>
<b>Minimum Impact Resistance 23°C:</b>	<b>160 inch lbs.</b>
<b>Minimum Impact Resistance 0°C:</b>	<b>20 inch lbs.</b>
<b>Yellowness index, white:</b>	<b>0.12 maximum</b>
<b>Taber Abrasion (ASTM D4060):</b>	<b>350 mg loss max</b>

**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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