

HPS®-8

Integrated Multipolymer Extrude
884900, 884901, 884910

ENNIS-FLINT by PPG

Product data sheet

ENNIS-FLINT® by PPG HPS®-8 Integrated Multipolymer 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 highlights

- 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.

Associated products

- 884900: White
- 884901: Yellow
- 884910: Black

Technical data

Physical Properties	Result	
% Binder	21% minimum	
% Glass	48% minimum	
Intermix Glass Specification	M-247 Types 1 & 3	
% TiO ₂	White: 10% minimum	
Minimum Impact Resistance 23°C	160 inch lbs	
Minimum Impact Resistance 0°C	20 inc lbs	
595B Color	White: 17886 / Yellow: 13538	
Reflectance (Y Value)	White: 65 minimum / Yellow: 30-60	
Yellowness Index	White: 0.12 maximum	
Taber Abrasion (ASTM D4060)	350 mg loss max	
Test Properties	Test Method	Result

Coverage

N/A

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 120oF. Outside storage for short intervals is acceptable as long as the material is kept dry.

Installation and surface preparations



Surface Preparation

To ensure the best adhesion and properties, the surface must be clean and dry. The surface preparation includes, but is not limited to, cleaning and removal of sealing and curing compounds. All pavements shall be cleaned free of grease, oil, dust dirt, grass, loose gravel, loose or flaking paint and other deleterious materials. The pavement surface to be prepared shall be wider than the material line to be applied, such that a prepared area shall be clean and visible on all sides of the material after application. New asphalt, concrete and seal coated surfaces shall be in place a minimum of two weeks prior to application and all curing compounds must be removed. Any existing marking which may interfere with the performance of the material must be physically removed by any Agency approved method except for the use of chemicals. It would be best practice for all existing markings to be at least 90 percent removed. The material may be applied over temporary paint markings which are well adhered to the substrate and are thinner than 8 mils. The material is not designed to be used as a temporary marking. Upon completion of the surface preparation, the pavement surface preferably should first be power broomed and vacuumed. An additional compressed air operation, separate from the compressed air guns on the striping applicator, preferably used to remove residue and debris resulting from the cleaning work. Compressed air must be used during the striping application. Cone whenever necessary.



Weather Conditions

Installation of the material shall only take place during dry conditions. Ambient and surface temperature must be 50° F and rising. The road surface shall be completely dry with no dew or frost. Do not apply if hot material shows moisture bubbles. The pavement and ambient temperature and weather conditions shall be determined and documented before the start of the application and at any other time deemed necessary by the Agency.



Equipment

Refer to the thermoplastic guidebook for further information.



Dry Time

With drop on glass beads applied, the thermoplastic material 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. Thermoplastic Pavement Marking Material is a 100% solids material blend of binder, pigments and glass beads that must be melted to a temperature of at least 400°F (204°C), mixed well and applied in a molten/liquid state to the pavement. Do not heat thermoplastic above 450°F.



Safety

Before working on this product, the user is required to read and understand the information provided in the Safety Data Sheets and to follow the safety precautions and good industrial hygiene.

Specifications (Effective Date)

Ennis-Flint HPS-8 Spec (04/2025)



WARNING: Certain colors of this product may contain chemicals known to the State of California to cause cancer and/or reproductive harm. For more information go to [P65Warnings.ca.gov](https://www.P65Warnings.ca.gov).

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