PRODUCT DATA / APPLICATION INSTRUCTIONS

PRODUCT: HPS®-2 EPOXY

PRODUCT DESCRIPTION: HPS–2 is a durable, two component epoxy pavement marking material designed for long line delineation on Portland Cement Concrete (PCC) and asphalt surfaces. HPS – 2 is available in White 999211, Yellow 999212 and Black 999213 and Catalyst 999299.

This material is a 100% solids plural component system applied in a 2 to 1 mixture ratio by volume (Component A: Base Resin and pigments. Component B: Activator/Curing agent).

ADVANTAGES:

- 100% Solids chemistry
- Excellent adhesion properties on a variety of substrates
- Formulated for slow set at a wide range of temperatures
- Exceptional abrasion and corrosion resistance
- UV degradation resistant
- Excellent reflectivity with glass beads or elements

TECHNICAL DATA:

PROPERTY	TEST METHOD	SPECIFICATIONS	
TiO2	ASTM D476 Type II	White 18-25%	Yellow 10-17%
Yellow Pigment			7-10%
Epoxy Equivalent WT	ASTM D1652	185+/-50 (pigment free basis)	
Total Amine Value	ASTM D2074	425+/-50	
Adhesion	ASTM D7234	100% Concrete Failure	
Abrasion Resistance	ASTM D4060	<80	
Hardness (Shore D)	ASTM D2240	>80	
No Pick-Up/No Track Time	ASTM D711	<45 min (with glass beads)	
Yellowness Index	ASTM E313	Max before QUV = 6	
		Max after 72 hours QUV = 30	
Tensile Strength	ASTM D638	>6000 psi	
Compressive Strength	ASTM D695	>12000 psi	

PACKAGING:
Both components are available in 250-gallon totes and 55-gallon drums.

COVERAGE:
Coverage in linear feet per gallon

Line width	Thickness in mils		
	15	**20**	**25**
4”	320”	240’	191’
6”	214’	160’	128’
8”	160’	120’	96’

STORAGE: Store in cool dry conditions. Avoid excessive heat. Do not freeze. Shelf life is two years in unopened packaging.

INSTALLATION AND SURFACE PREPARATIONS

Placement

Technical data regarding the material will be provided to the project engineer prior to starting work. All installation procedures must be followed per Ennis-Flint's instructions herein.

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 and temporary paint markings 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. All existing markings must 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.

Final Surface Preparation

Upon completion of the surface preparation, the pavement surface must first be power broomed and vacuumed. An additional compressed air operation, separate from the compressed air guns on the striping applicator, must be used to remove residue and debris resulting from the cleaning work. Compressed air must be used during the striping application.

Weather Conditions

Installation of the material shall only take place during dry conditions. Ambient and surface temperature must be 35^{o}F and rising with a maximum 90% humidity. The road surface shall be completely dry with no dew or frost. 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 Ennis-Flint or the Agency.

Equipment

The material shall be applied with equipment utilizing the impingement mix, solvent free, airless spray application system or with a standard mix tube spray applicator. The equipment shall be designed accurately control the flow of the material at the spray gun tip. The equipment shall have pressure gauges for each proportioning pump and a metering device to register the accumulated footage for each spray gun or a meter to determine the actual volume used.

Safety

Before working this 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.

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