

HPS - Structured

MMA Structured Marking System

PRODUCT DATA

Product Type: Structured Markings, Methyl Methacrylate (MMA)

Product Codes: CAPSTR100

Product Colors: White

Yellow on request

Description: HPS – Structured MMA is a specialised 98:2, Cold Applied Plastic (CAP) marking and when applied to previously unmarked surfaces, the “structured” line creates a solid line effect when viewed from the driver’s perspective. It produces enhanced wet night retroreflectivity by allowing water to flow off the peaks and out the valleys of the pattern.

Effective Date: Nov 2018

Product Description:

HPS Structured MMA pavement marking systems are plural component products designed predominantly for long line pavement marking applications where excellent wet night visibility and durability is required. This product has fast, reliable cure times, even in cool temperatures and provide outstanding adhesion to both concrete (priming is required) and asphalt.

HPS Structured is a 100% solids high build product installed at build thicknesses up to 6mm through the use of specialized structure pattern application equipment.

HPS Structured pavement markings offer long life performance with excellent durability, adhesion and wet retro-reflectivity properties.

Product Advantages:

- **Extremely Durable.** A solution for areas where conventional pavement markings do not perform.
- **UV Stable.** UV stabilized resins that reduce yellowing and degradation over of the life of the marking.
- **Fast back to traffic.** Fast drying, minimizing application time, costs as well as less worker time on the road.
- **Reliable dry times.** Low application temperatures with reliable cure times down to 5°C
- **Multi use application.** Recommended for streets, highways, crosswalks, symbols & legends.
- **Adhesion.** Tenacious adhesion to asphalt and concrete substrates.

Packaging: HPS Structured is available in 750kg IBC’s/Haztainers. The product must be used with the Ennis Flint recommended EF BPO Hardener (sold separately).

Storage: Keep cool in a dry covered protected area between 5°C – 35°C and must be stored out of direct sunlight. Use within 6 months of receipt

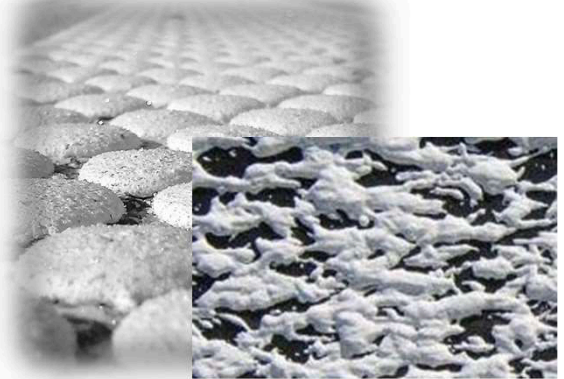
Catalyst Recommendations: Ennis-Flint recommends using 2.0% EF BPO Hardener by weight of catalyst addition to the Structured Marking in all acceptable surface temperature ranges between 5°C and 40°C. Using less catalyst will increase cure times and possibly negatively impact the success of the application.

Coverage: Please contact your EF representative for further details and coverage calculations. Coverage rates vary greatly, based on pattern type and surface texture.

Multi-Dot ≈ 2.8kg/m²

Splatterline ≈ 3. 1kg/m²

Safety & Transport: Refer to the Safety Data Sheet (SDS)



Physical Characteristics:

Density (kg/ltr)	1.85-1.95kg/L
Solids (%weight)	>99% (cured)
Glass Bead Content	24% min by wt
VOC	<1g/L
Pot Life	<10mins
Cure/No Track Time	<20mins*
Hardness (Shore D)	50 Min
Skid Resistance	≥ 45 bpn
Chemical Resistance	(refer chemical resistance chart)
Luminance	White: >80

*Using EF BPO Hardener at 2% by weight and applied at 25°C ambient conditions.

Limitations:

- Contact Ennis-Flint when road and/or ambient temperatures are below 15°C
- Do not apply when temperatures are near, or below the dew point
- Do not apply if the surface is not completely dry
- P2 Concrete Primer is required prior to application to any concrete surface
- Please contact your E/F sales representative for further information relating to the use and limitations of this product

The product data offered herein is, to the best of our knowledge, true and accurate, but all recommendations are made without warranty, expressed or implied. Because the conditions of use are beyond our control, neither Ennis-Flint nor its agents shall be liable for any injury, loss or damage, direct or consequential, arising from the use or the inability to use the product described herein. As Ennis-Flint has neither control over the installation of product described herein nor control of the environmental factors the installed markings are subjected to, there is no guarantee as to the durability or the retroreflective properties of any marking system applied. No person is authorized to make any statement or recommendation not contained in the Product Data, and any such statement or recommendation, if made, shall not bind the Corporation. Further, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents, and no license under the claims of any patent is either implied or granted.



ENNIS TRAFFIC SAFETY SOLUTIONS PTY LTD ABN 34 064 325 631
 29-31 Memorial Avenue, Ingleburn NSW 2565 Ph: +61 2 98294275
 9 Akatea Road Glendene Auckland 0602 Ph: +64 9 818 6410


enquiry@ennisflint.com.au www.ennisflint.com.au

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TRANSPORT AND STORAGE

GHS	DG
	<p>UN No: 1263 Hazchem Code: +3YE DG Class: 3 Subsidiary Risk: N/A Packing Group: II Poisons Schedule: S6</p>


Important: Please read the complete **Safety Data Sheet** and any precautions on the product label before use. **Safety Data Sheet** is available on the Ennis Flint website ennisflintapac.com.au



Scan this image
for easy access to Safety Data Sheet

HEALTH AND SAFETY

PRECAUTIONS FOR USE

	
Appropriate engineering controls:	Local Exhaust Ventilation recommended.
Glasses:	Consider chemical goggles.
Gloves:	1. TEFLON 2. PE/EVAL/PE 3. PVA
Respirator:	Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)
Storage and Transportation:	Store in cool, dry, protected area. Restrictions on Storage apply. Refer to Full Report. Use only in well ventilated areas. Take precautionary measures against static discharges. Dispose of this material and its container at hazardous or special waste collection point. Keep out of reach of children. Keep container in a well ventilated place. Keep away from sources of ignition. No smoking.
Fire/Explosion Hazard:	HIGHLY FLAMMABLE. Toxic smoke/fumes in a fire. Use only in well ventilated areas. Take precautionary measures against static discharges. Dispose of this material and its container at hazardous or special waste collection point. In case of fire and/or explosion, DO NOT BREATHE FUMES

FIRST AID

Swallowed:	Give water (if conscious). Seek medical advice.
Eye:	Wash with running water.
Skin:	Remove contaminated clothing. Wash with soap & water.
Inhaled:	Fresh air. Rest, keep warm.
Advice To Doctor:	Treat symptomatically.
Fire Fighting:	Keep containers cool. Foam.
Spills and Disposal:	Eliminate ignition sources. Consider evacuation. Prevent from entering drains. Contain spillage by any means. Absorb with dry agent. Stop leak if safe to do so. Use only in well ventilated areas. Take precautionary measures against static discharges. Dispose of this material and its container at hazardous or special waste collection point. This material and its container must be disposed of in a safe way. To clean the floor and all objects contaminated by this material, use water and detergent.

Poisons Information Centre: Australia 131 126; New Zealand 0 800 764 766