



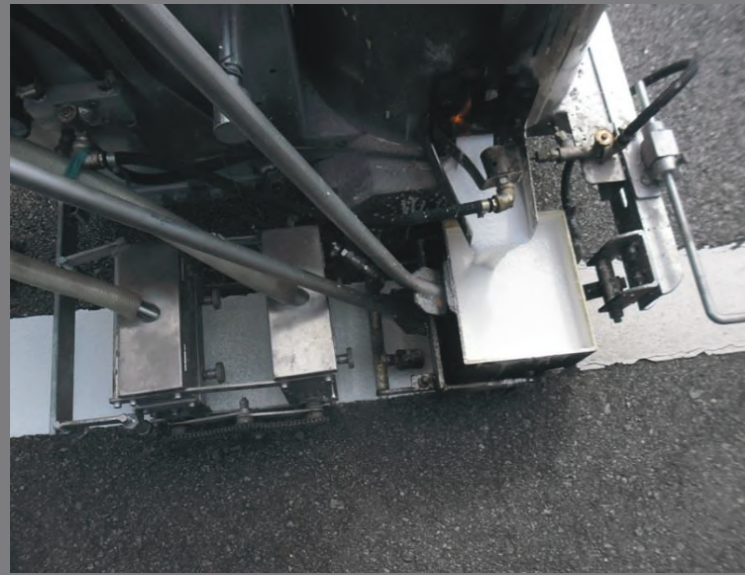
HIGH PERFORMANCE THERMOPLASTIC ULTRALINE™ HPT® (AWT)



Ennis-Flint ULTRALINE™ HPT® provides an enhanced level of performance to ensure that your application stays above the required intervention level.

Visibility - By day, visibility is achieved by ensuring that the markings have excellent luminance, which provides a contrast with the road surface. By night, this is achieved by the retro-reflectivity of premium grade glassbeads on or in the marking material.

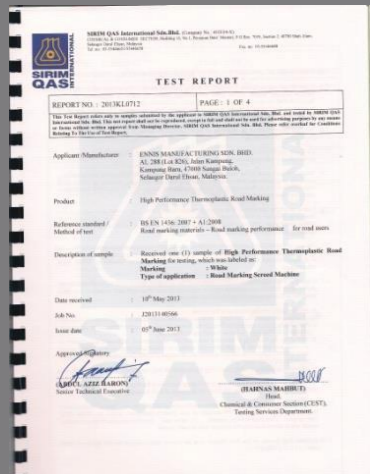
Resistance – Pedestrian areas, cycle lanes, larger area road markings and those in critical locations may need a degree of skid resistance. Applying anti-skid materials on or in the marking, results in a roughened surface, which increases the skid resistance. Wherever possible the skid resistance of the line should not be less than the road surface.



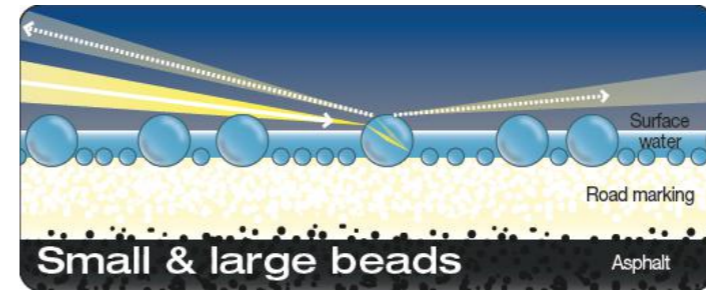
BENEFITS OF USING ULTRALINE™ HPT®

- Formulated to meet and exceed EN1436 (European Standards for Road Markings)
- Fully conforming to all weather performance designed for use on all national roads and expressways.
- Special design formulation to provide good night/wet visibility performance
- Typically applied in 2.8 to 3.2mm with double drop glass bead application.

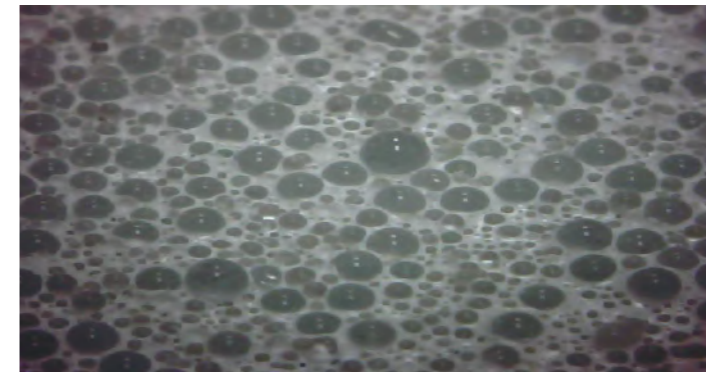
Ennis-Flint ULTRALINE™ HPT® have fully conform to the performance levels of European specification BS EN 1436 designed for use on all national roads and expressway.



From edge lines and center lines to skips, gores, and more, EnnisFlint can help you determine the right Thermoplastic formula for your next striping project.



The retro-reflectivity of premium glass beads applied correctly, enables road markings to be visible at night. The effectiveness of retroreflectivity can be impaired during wet conditions. The images beside show combination of different sized glass beads, increase road marking visibility in wet/night conditions.



ACTUAL SITE REFLECTIVITY TESTING REPORT

Ennis-Flint® High Performance Thermoplastic Roadmarking
Location: PLUS Expressway – KM348 (South Bound)

Reading	Initial Reading		2nd Reading		3rd Reading		4th Reading	
	24th Jul 2013		18th Sep 2013		27th Jan 2014		27th Aug 2014	
	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
1	708	202	490	171	456	176	354	110
2	686	303	446	148	610	94	377	113
3	648	149	445	171	513	138	340	117
4	712	302	454	176	535	129	330	113
5	716	204	408	163	445	138	360	134
6	653	194	439	147	529	169	339	141
7	689	186	446	212	557	117	359	100
8	648	-	429	169	432	195	352	95

IMPORTANT NOTICE:-

The objective of this test report is to provide the road authority the retroreflectivity performance (RL: Coefficient of Retroreflected Luminance) of the High Performance Road Marking. Testing provided by Ennis-Flint® is based on actual test with the presence of road authorities.