

Redefine the line.

Introducing 3M[™] Connected Roads All Weather Elements—our most efficient optics for liquid pavement markings yet.



Designed for detection.

3M™ Connected Roads All Weather Elements

Addressing visibility, road congestion and crashes is no easy task—especially at night or in the rain. But with the enhanced colour and improved* all-weather performance of durable, bright 3M™ Connected Roads All Weather Elements, you can and at an acceptable cost, too.

It's all made possible by our unique 2.4 (wet) and 1.9 (dry) refractive index bead technology.

*Compared to previous generation 3M™ All Weather Elements and other commerciallyavailable pavement marking optics.



In night-time rain conditions, wet retroreflective optics enable detection at longer distances than glass beads on yellow markings.

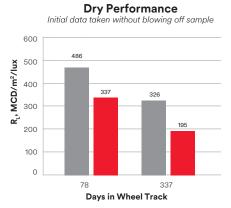
Based on testing jointly conducted with Continental Automotive Systems Inc. in December 2017 in Brimley, Michigan, USA. Materials tested included yellow LPM lines in conventional driving zones and night-time rain with either glass or 3M elements.

Testing for the real world.

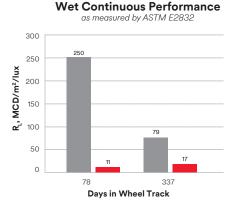
It's impossible to prepare for every scenario—but that doesn't mean we won't try. At 3M, we test our pavement markings using wet-continuous methods, measuring brightness levels in a way that simulates actual weather situations. The result is pavement markings optimized to perform when it matters most: all the time.

	Product Selector Guide		
	Beads and Elements		
Attributes	3M CR AWE	Beads (1.5/1.9 Index) Type I ¹	Beads (1.5 Index) Type III ² and Larger
Dry Retroreflectivity	✓	✓	✓
Wet Continuous Retroreflectivity	✓		
Dry/Wet Yellow Retroreflective Beads	✓		
Improved Whiteness	✓		
Designed for Machine Vision	✓		

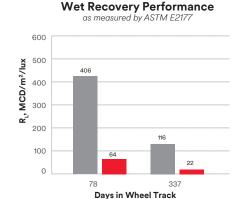
¹AASHTO M247 | ²FP0 718.19











3M $^{\rm w}$ Connected Roads All Weather Elements 70M and 1.5 Glass. New Orleans Deck, installed March 2017 in LPM. 78 and 337 days in wheel track.

Series	Uses elements with the following blend:	Products
50	~ 50% wet 2.4 refractive index beads & 50% dry 1.9 refractive index beads	50, 51, 50E*, 51E*, 50M*, 51M*
70	~ 80% wet 2.4 refractive index beads & 20% dry 1.9 refractive index beads	70E*, 71E*, 70M*, 71M*
90	~ 80% wet 2.4 refractive index beads & 20% dry 1.9 refractive index beads	90, 91

*For use with Epoxy (E) or MMA (M) binders

