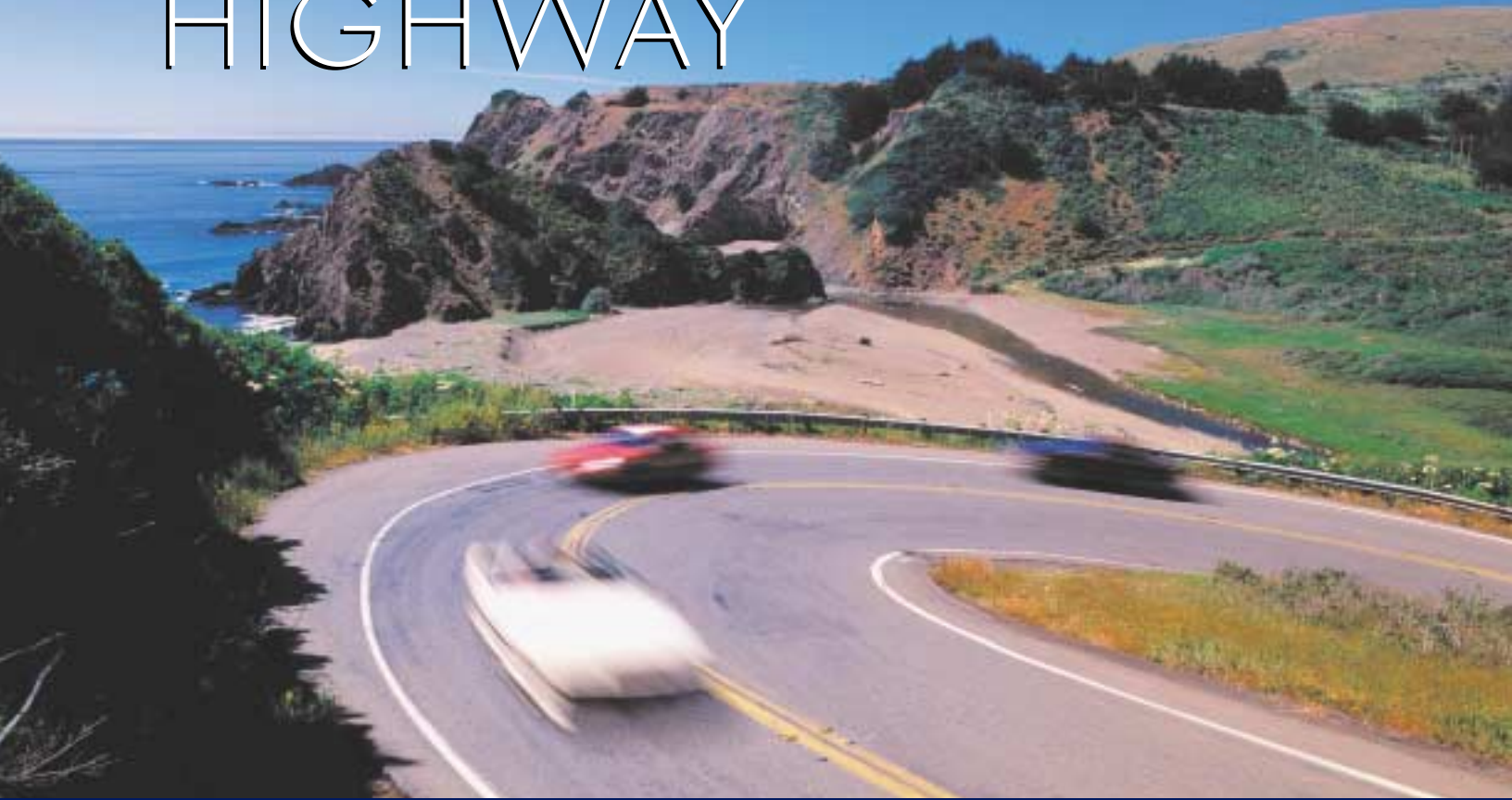


# STANDARD HIGHWAY

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## ***SAFETY MARKING SPHERES***

*COST-EFFECTIVE SAFETY AND CONTROL FOR EVERY ROAD*

 **Potters Industries Inc.**  
an affiliate of PQ Corporation

*DEFINING THE LINE FOR HIGHWAY SAFETY*



# STANDARD HIGHWAY

COST-EFFECTIVE SAFETY AND CONTROL FOR EVERY ROAD

## Potters Standard Highway Spheres— Cost-effective Highway Delineation

Retroreflective pavement markings deliver continuous roadway guidance to drivers and have been proven to increase highway safety.

Potters Standard Highway Marking Spheres provide cost-effective nighttime roadway delineation, and meet or exceed every standard in effect in the United States today.

Potters Standard spheres are highly durable and consistent in quality and composition. Strict quality control produces truly round spheres that optimize retroreflectivity. Proprietary coatings are available to resist agglomeration, ensure flotation for ideal embedment and improve adhesion for greater durability.

Standard spheres may be applied as a drop-on in all commercial binder materials, including waterborne paint, epoxy, polyester, thermoplastic, PMMA and polyurea.

## Application Guidelines

To ensure optimum retroreflective performance and durability, the bead/binder system needs to be applied in the proper manner:

- Apply the spheres immediately following the binder application.
- Apply the spheres evenly over the width and length of the marking.
- Embed the spheres to a level of 60%.
- Apply Standard Highway Safety Marking Spheres at the rate of:

**6–8 pounds per gallon of latex.**

**20–24 pounds per gallon of epoxy.**

**10–12 pounds per 100 square feet  
of thermoplastic.**

Potters VISIGUN® safety marking sphere dispenser is designed for optimal application of all types of safety marking spheres.

## Potters Standard Spheres: Facts and Figures

**Size:** 20–80 mesh (850–150 microns); a range of sizes offsets the effects of traffic and binder degradation.

**Compatible binders:** waterborne or solvent-based paint, epoxy, polyester, thermoplastic, PMMA and polyurea.

**Standards:** Spheres can be supplied to meet state specifications for gradation (size), roundness and coatings. Standard Highway Marking Spheres meet or exceed every standard in effect in the United States today, including the U.S. Department of Transportation Federal Highway Administration's FP-03 specifications.

## Typical Standard Bead Size

U.S. Mesh Size	Millimeters	Mass % Passing
20	0.850	100
30	0.600	75–95
50	0.300	15–35
100	0.150	0–5

AASHTO M-247, Type 1

Roundness—70%, 75%, and 80% overall by sieve size.

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