

PRODUCT SPECIFICATION**Brite-Line® 2000 – Intersection
Pavement Marking Tapes**

Intersection 2000 marking tape is an easy to install, highly durable, conformable, retroreflective delineator. Intersection 2000 is available in white and yellow, in a variety of widths, as well as words and symbols, and is intended primarily for intersections that may be opened to traffic immediately after application.

Composition

Intersection 2000 contains a reflective layer of select glass spheres and anti-abrasion particles bonded to a highly durable urethane wearing surface. Intersection 2000 consists of a specially formulated blend of polymer resins, pigments, and filters, evenly dispersed with glass spheres and an integrated reinforcing system. The bottom side of Intersection 2000 is coated with a unique pressure sensitive adhesive designed to adhere to properly bituminous and portland cement surfaces without the use of heat, solvents, or other extra measures.

Application

Proper surface preparation is essential for satisfactory Intersection 2000 results. Essentially, the surface must be clean and dry, with a surface temperature of 50oF, and rising. Intersection 2000 cannot be successfully applied over loose or caked dirt, gravel, oily residues, road salt residues, or other foreign substances which will interfere with proper bonding. Manufacturer's application instructions, with more detailed information, are included in each carton.

Color

Intersection 2000 pavement marking tapes are available from inventory stock in white and yellow conforming to standard highway marking colors. The pigments are thoroughly blended to produce long lasting colors resistant to the effects of weather exposure. Other colors are available on a custom basis.

Reflectance

Exhibit 1 illustrates Intersection 2000 pavement marking tapes excellent reflective properties both initially and over the life of the product. When measured using ASTM Test Method D4061, Intersection 2000 tapes exhibit the following minimum initial values expressed as specific luminance in millicandelas per square meter per lux (MCD/M²/Lux). The entrance angle should be 86o.

Exhibit 1

	White		Yellow	
	0.2°	0.5°	0.2°	0.5°
Observation Angle	0.2°	0.5°	0.2°	0.5°
Specific Luminance (MCD/M ² /Lux)	700	500	410	250

Reflectance Retention

To have a long, effective service life, the surface layer of glass beads must be strongly bonded and not easily removed by traffic wear. To assure excellent long-lasting reflectance, Intersection 2000 has a specially formulated, abrasion-resistant, top coating designed to securely hold the surface layer of glass beads and anti-skid particles. The following two tests demonstrate the effectiveness of this coating. Use a microscope to observe a sample of Intersection 2000 after 200 cycles on a Tabor Abraser equipped with an H-18 wheel under a 125 gram load. No more than 15 percent of the beads shall be lost due to "popout". The predominant mode of failure shall be "wear down" of the beads, or anti-skid particles. A simple and reliable glass bead retention test can be easily performed.

Wrap a 3 inch by 3 inch sample of Intersection 2000 tape around a one-half inch mandrel. When applied to the point of maximum bend, masking tape shall not remove beads, or anti-skid particles from surface. In addition, beads shall not be readily removed from the surface by scratching the tape at the point of maximum bend with a thumb nail.

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Skid Resistance

The surface of Intersection 2000 provides excellent skid resistance. When tested according to the procedures specified in ASTM-E-303, Intersection 2000 exhibits an initial minimum skid resistance value of 55 BPN.

Patchability

Intersection 2000 pavement marking tape is designed for use in patching worn areas of Intersection 2000 installations. The tape will readily adhere to previously applied material. Performance Life The performance life of Intersection 2000 plastic marking materials will vary greatly depending upon traffic conditions, snow removal practices, pavement surfaces, and application techniques. It is recommended that each customer evaluate Intersection 2000 pavement marking tape under the various conditions of specific locations. Experience has shown that when properly applied, these materials are highly effective traffic control devices. However, Brite-Line makes no generalized performance claims.

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