

PRODUCT SPECIFICATION
Brite-Line Removable 100
Pavement Marking Tapes

Brite-Line Removable 100 marking tape is an easy to install, highly durable, completely removable means of providing temporary roadway delineation. The composition of Removable 100 is designed to provide superior daytime visibility as well as excellent nighttime reflectivity for portland cement and bituminous surfaces. Removable 100 is available in white and yellow, in a variety of widths, as well as words and symbols, and is intended primarily for construction zones that may be opened to traffic immediately after application.

Composition

Removable 100 consists of a highly reflective layer of select glass spheres bonded to the specially formulated blend of polymer resins, pigments, and filters, evenly dispersed with glass spheres and an integrated reinforcing system. The bottom side of Removable 100 is coated with a unique pressure sensitive adhesive designed to adhere to properly prepared bituminous and portland cement surfaces without the use of heat, solvents, or other extra measures.

Application

Proper surface preparation is essential for satisfactory Removable 100 results. Essentially, the surface must be clean and dry, with a surface temperature of 50°F, and rising. Removable 100 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

Removable 100 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 Removable 100 pavement marking tapes excellent reflective properties both initially and over the life of the product. When measured using ASTM Test Method D4061, Removable 100 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 86°.

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, Removable 100 has a specially formulated, abrasion-resistant top coating designed to securely hold the surface layer of glass beads. The following two tests demonstrate the effectiveness of this coating.

Use a microscope to observe a sample of Removable 100 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.

A simple and reliable glass bead retention test can be easily performed.

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Wrap a 3 inch by 3 inch sample of Removable 100 tape around a one-half inch mandrel. When applied to the point of maximum bend, masking tape shall not remove beads 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.

Skid Resistance

The surface of Removable 100 provides excellent skid resistance. When tested according to the procedures specified in ASTM-E-303, Removable 100 exhibits an initial minimum skid resistance value of 45 BPN.

Removal

Removable 100 temporary tape is designed to allow removal intact or in large pieces. The use of heat, solvents, hydroblasting, or grinding is not needed. It may be necessary to use a sharp edge to start the removal of Removable 100, then lift one edge of the tape and pull at a 90o angle to the surface. The temperature should be 40oF or higher. At lower temperatures, Removable 100 maybe somewhat more difficult to remove and excess breakage may occur.

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