

## Technical Data Sheet

### BD-LG2

2 Component, Polyurethane,  
Winter Grade Detector Loop Sealant  
For use in North America only

#### Product Description:

BD-LG2 is a two component polyurethane, detector loop sealant. It is designed for use in both asphalt and concrete pavement to provide a weather and chemical resistant waterproof seal.

BD-LG2 Detector Loop Sealant exhibits exceptional chemical resistance to de-icing salts (including 50% by weight potassium acetate), gasoline, hydraulic brake fluid and motor oil. BD-LG2 requires no clean up since the mixing tips are disposable.

#### Uses:

BD-LG2 is primarily used as a fast cure, protective seal for traffic detector wire loops employed in actuated intersections. It may be used as a sealant for saw cuts in concrete and asphalt surfaces.

#### Curing:

BD-LG2 will gel in only 8 - 15 minutes at 77°F (25°C). This product will take longer to gel at temperatures below 77°F (25°C). See the "Gel Time in Saw Cut" chart below. The cure will also depend on the volume of material applied. Contact your BD Loops Distributor for more information.

#### Superior Features:

BD-LG2 has no reaction with the asphalt and concrete and therefore will not deteriorate them. It exhibits no "bubbling" or "mushrooming". BD-LG2 will not expand or flow above the joint. Refer to Use and Handling Instructions. BD-LG2 is a 100% solids system, that contains no solvents and is zero V.O.C.

#### Surface Preparation:

It is the responsibility of the installer to ensure that the substrate are clean and dry (free of dust, water and ice) before installation of BD-LG2 . If the substrate is not dry or if it is coated with a thin layer of ice, the surface may be heated with a torch or hot air gun to dry.

#### Packaging:

BD-LG2 is available as follows:

- 21 fl. oz. (600 mL) ratio pack tubes to be dispensed through a manual gun dispenser. **Dark Gray Color Only.** Shelf Life is 1 year from date of manufacture.

#### Dispensing gun available: Part# BD-LG2-GUN

Dripless 600ml (300:300ml) Dual Cartridge dispensing gun.  
Compatible with BD-LG2.



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## Physical Properties

### BD-LG2 Mixed Properties:

Property	BD-LG2
Brookfield Viscosity	1200-1700 cps
Color	Dark Gray
Solids	100%
Hardness, Shore A (ASTM D-2240)	70-80
Elongation (ASTM D-412)	175-225%
Tensile Strength	600-800 psi
Adhesion to concrete (ASTM D-903)	170lb/inch width

**Note:** The above properties are typical characteristics and not to be considered as specifications.

## Safety and Handling:

Please refer to the Material Safety Data Sheet for BD-LG2 for more information.

Gel Time in Saw-Cut Groove*	
Temperature**	BD-LG2 Gel Time
23° F (-5° C)	120 minutes
41° F (5° C)	45 minutes
59° F (15° C)	15 minutes
Over 59° F (15° C)	Less than 15 minutes

\* 1" deep x 1/4" wide saw cut.

\*\* Temperature of material and substrate.

For loop applications, the tack free time is not critical to opening of lanes for traffic if saw cut joint is filled 1/8 inch below pavement/concrete surface. Also, if BD-LG2 is kept at a warmer temperature, (i.e. placed in truck cabin while heater is on) the cure time in saw cut will decrease.

**Using a 3/16" wide blade over 1/4" blades will save you 25% in loop sealant.**

### 3/16" Wide Blade/Groove

Depth	Coverage Per Cartridge	Coverage Per Case
1 1/4"	18 ft	216 ft
1 1/2"	14 ft	168 ft

### 1/4" Wide Blade/Groove

Depth	Coverage Per Cartridge	Coverage Per Case
1 1/4"	13.5 ft	162 ft
1 1/2"	10.5 ft	126 ft