



Detector Loop Sealant 5000

65749

Technical Data Sheet

March, 2014

3M Part No.(s)	3M Part Descriptor(s)
65749	1 Liter Cartridge (12/case)

Product Description 3M™ Detector Loop Sealant 5000 is a one part, moisture cure, extremely flexible, polyurethane product designed to protect traffic detector wires in concrete and asphalt surfaces.

Features, Advantages, Benefits	Features	Advantages	Benefits
	<ul style="list-style-type: none">• One part moisture curable polyurethane• Self Leveling• Extremely flexible• Durable	<ul style="list-style-type: none">• No mixing required• Total encapsulation of the traffic detector wires in loops• Extremely flexible so loop won't crack• Durable• Fast skin over time• No linear shrinkage• Excellent adhesion to cement and asphalt• Excellent resistance to massive physical, chemical, and mechanical exposures	<ul style="list-style-type: none">• Easy to use• Helps save time• Long lasting application• Potential for shorter down time for lane closures

Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Container	1 liter flex pack
Base	Polyurethane
Density/WPG (Weight/Gallon)	10.0 – 10.6 lbs/gal
Color	Black
Viscosity @ 77°F (25°C) - Brookfield RVT, Spindle TA @ 5 rpms	10,000 – 45,000 cps

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Product Uses

A durable, one part, permanently elastic product to seal saw cut openings in concrete and asphalt. It is specifically designed to adhere, encapsulate, and insulate sensitive wire loops used for control of traffic signals, parking lot gates, traffic counters, airport runway lights, etc. For best results apply this sealant when the surface temperature of the pavement does not exceed 100°F, nor fall below 40°F.

Performance Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Skin Time @ 77°F	2 hours	
Cure Through Time @ 77°F	48 hours	
Tensile Strength	620 psi ± 43	ASTM D-412
Elongation	297% ± 32	ASTM D-412
Linear Shrinkage	0%	ASTM D-2566
Hardness Shore A	74	ASTM D-2240
Coverage (1 gallon of sealer) Width 3/8" x Depth 1" Width 3/8" x Depth 1-1/2"	51 linear feet 35 linear feet	
1 quart cartridge Width 3/8" x Depth 1" Width 3/8" x Depth 1-1/2"	11.6 linear feet 7.7 linear feet	

Directions for Use

1. Remove all dust, water or other debris from the wire loop prior to installation.
2. After installing detector wire per applicable Federal, State and local regulations, apply Detector Loop Sealant 5000 to seal detector wires and fill slot to approximately 1/8" below the roadway surface.
3. As the sealant reacts with moisture, it cures and expands slightly.
4. The sealant does not need to be fully cured before the roadway is opened to traffic as long as the saw cut was not filled to the surface.
5. Curing time varies, however; normally the sealant will be tack free in 24 hours.

Applications

See "Product Uses" above.

Storage and Handling

When stored at room temperature (65 - 85°F) in original packaging, product shelf life is 12 months from date of manufacture. Protect from sunlight. Store the product away from heat sources, acids, and oxidizing agents.

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Precautionary Information

Refer to Product Label and Material Safety Data Sheet for Health and Safety Information before using this product. MSDS Doc #05-7288-3

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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For Additional Health and Safety Information



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