

MasterSeal[®] SL 180

Polyester traffic-detector loop sealant

FORMERLY GOLD LABEL ALL SEASON LOOP SEALANT

PACKAGING

3.5 gallon (30 lb [13.5 kg]) plastic pails, containing:

- 1 gallon (3.8 L) liquid
- 20 lbs (9 kg) powder
- 1/2 oz tube of Flexgard Retarder
- 100 g bottle of Fast Flex Accelerator sold separately

COLOR

Gray

YIELD

See chart to the right

STORAGE

Store and transport in unopened containers at 60 to 80° F (16 to 27° C) in clean, dry conditions.

SHELF LIFE

1 year when properly stored.

VOC CONTENT

347 g/L less water and exempt solvents

DESCRIPTION

MasterSeal SL 180 is a flowable polyester sealant. It is designed for the traffic control industry to embed and protect detector loop wire for traffic signals and parking gates.

PRODUCT HIGHLIGHTS

- Cures quickly, helping to minimize traffic disruption
- Cured sealant is flexible to accommodate normal movement in concrete or asphalt
- Variable mix ratio allows applicator to mix to desired consistency
- Flowable to ensure loop wire is totally encapsulated
- Freeze/thaw tolerance allows sealant to be used in subfreezing conditions
- Moisture tolerant so it can be applied to damp substrates

APPLICATIONS

- For embedding detector loop wire for traffic signals and parking gates
- Interior or exterior
- Concrete and masonry
- Asphalt

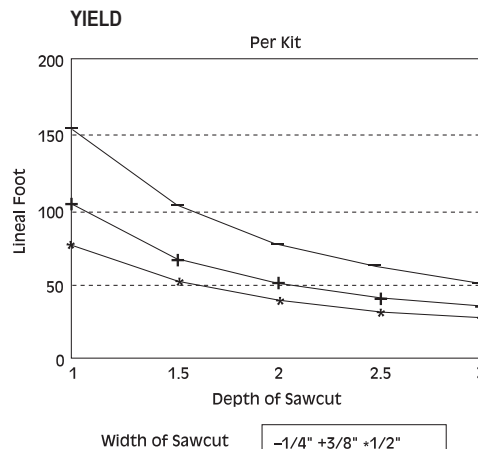
HOW TO APPLY

MIXING

1. Gradually add the powder to the liquid resin in a clean container, preferably plastic. Use the full 20 lbs (9 kg) of powder and mix with the 1 gallon (3.8 L) of resin supplied. Extra resin (up to an additional gallon) may be added to meet job requirements. Additional powder may also be added for variable consistency.
2. Stir constantly to achieve a uniform consistency. For best results, use a mechanical mixer.
3. To extend the pot life, mix in the tube of Flexgard provided with each kit.
4. To accelerate cure time, mix in 1/2 bottle (50 g) for application below 35° F (2° C).
5. Pre-condition material to 50–75° F before use.

APPLICATION

1. Saw cut the joint to desired dimensions.
2. Clear sawcut of water and debris using oil-free compressed air.
3. Install the detector loop wire.
4. Slowly pour MasterSeal SL 180 into the sawcut, allowing the sealant to flow and encapsulate detector wire.



Technical Data

Composition

MasterSeal SL 180 is a self-leveling polyester sealant.

Typical Properties

PROPERTY	VALUE
Pot life, min, at 77° F (25° C)	10 – 15
With Flexgard	30 – 40
Initial cure, min, at 77° F (25° C)	20
Cure with Flexgard	45

Cold Weather Application with 50 g Fast Flex Accelerator

PROPERTY	VALUE
Pot life, min, at 35° F (2° C)	10
Initial cure, min, at 35° F (2° C)	10 – 15

Do not use Fast Flex Accelerator above 35° F (2° C).

Test Data

PROPERTY	RESULTS	TEST METHOD
Viscosity , cps, at 78° F (26° C)	6,500	ASTM Brookfield Model RVT #3 at 10 rpm
Hardness , Shore D	50	ASTM D 2240
Tensile strength , psi (MPa)		ASTM D 638
2 to 1 powder / resin	395 (2.7)	
1 to 1 powder / resin	246 (1.7)	
Elongation , %		ASTM D 638
2 to 1 powder / resin	10	
1 to 1 powder / resin	20	
Bond to concrete , psi (MPa), direct tensile	300 (2.1) 100% concrete failure	ASTM D 4541
Absorption , %		ASTM D 570
Salt water (5% solution)	0.20	
Water	0.20	
Oil	0.02	
Gasoline	0.80	
Linear shrinkage , %	0.78	ASTM D 2566
Arc resistance , sec	181	ASTM D 495

All application and performance values are typical for the material, but may vary with test methods, conditions, and configurations.

CLEANUP

Clean up tools and equipment with lacquer thinner. Clean skin immediately with soap and water or industrial hand cleaner, not solvents.

FOR BEST RESULTS

- Can be applied below freezing temperatures provided substrate is frost and ice-free.
- Proper application is the responsibility of the user. Field visits by Master Builders Solutions personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

HEALTH, SAFETY AND ENVIRONMENTAL

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IN CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.LIMITED

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