

Technical Data Sheet

September 2012
For use in North America only

Q-SEAL™ 295

2 Component, Polyurethane,
Detector Loop Sealant
Summer Grade (S) and Winter Grade (M)

Product Description

Q-Seal™ 295 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.

Q-Seal™ 295S, Summer Grade is designed for use in hot weather (ie. above 60°F/15°C). For temperatures below 65°F/18°C, Q-Seal™ 295M Winter Grade is recommended.

Q-Seal™ 295 Detector Loop Sealant exhibits exceptional chemical resistance to de-icing salts (including 50% by weight potassium acetate), gasoline, hydraulic brake fluid and motor oil. Q-Seal™ 295 requires no clean up since the mixing tips are disposable.



Uses

Q-Seal™ 295 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

Q-Seal™ 295 will gel in only 8 - 10 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 Chemque representative for more information.

Superior Features

Q-Seal™ 295 has no reaction with the asphalt and concrete and therefore will not deteriorate them. It exhibits no "bubbling" or "mushrooming". Q-Seal™ 295 will not expand or flow above the joint. Refer to Use and Handling Instructions. Q-Seal™ 295 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 Q-Seal™ 295. 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

Q-Seal™ 295S and Q-Seal™ 295M are available as follows:

- 21 fl. oz. (600 mL) ratio pack tubes^v to be dispensed through a manual gun dispenser
- 51 fl. oz. (1500 mL) ratio pack tubes^v to be dispensed through a compressed air gun dispenser
- Twin packages of 10 gallon (38L) kits to be dispensed through a meter-mix air pump dispenser
- 55 gallon (200L) drums

Shelf Life is 1 year from date of manufacture. Order must exceed a minimum quantity



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Physical Properties

Property	295S Mixed	295M Mixed
Brookfield viscosity	4000 – 6000 cps	1200 – 1700 cps
Color	Grey	Grey
Solids	100%	100%
Hardness, Shore A (ASTM D-2240)	65 – 75	70 – 80
Elongation (ASTM D-412)	175 – 225%	175 – 225%
Tensile strength (ASTM D-412)	600 – 800 psi	600 – 800 psi
Adhesion to concrete (canvas to concrete - ASTM D-903)	170 lb/in width	170 lb/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 Q-Seal 295™ for more information.

GEL TIME IN SAW CUT†		
Temperature*	295S (minutes)	295M (minutes)
23°F (-5°C)	N/A	120
41°F (5°C)	N/A	45
59°F (15°C)	21	15
77°F (25°C)	8	N/A
95°F (35°C)	5	N/A

† 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 Q-Seal™ 295M Winter Grade is kept at a warmer temperature, (i.e. placed in truck cabin while heater is on) the cure time in saw cut will become close to that of Q-Seal™ 295S Summer Grade.

Customer Service

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