Q-SEAL 290S
DETECTOR LOOP SEALANT

DESCRIPTION

Q-Seal 290S Detector Loop Sealant is a one component thixotropic moisture curing polyurethane sealant. It is designed for use in both asphalt and concrete pavement to provide a weather and chemical resistant waterproof seal.

USES

Q-Seal 290S is primarily used as a protective seal for traffic detector wire loops employed in actuated intersections. It may be used as a sealant for saw cuts in concrete or asphalt surfaces.

CURING

Q-Seal 290S will skin over in approximately 3 hours at 77°F and 50% R.H. At temperatures below 77°F this product will take proportionately longer time to cure. At temperatures above 77°F it will take a proportionately shorter time to cure.

SURFACE PREPARATION

The substrate should be dry, dust free and as smooth as possible before installation of Q-Seal 290S. It is recommended that ambient temperatures at time of sealant application should not exceed 100°F or fall below 36°F. It is recommended that Q-Seal 290S be applied by using a pressurized dispensing system, allowing for positive injection of Q-Seal 290S into the saw cut to properly encapsulate the loop wire. Normally the dispensing system consists of a 10:1 ratio pump with air regulator, gauge and air valves. The primer is an elevator with a follower plate that should be resistant to aromatic hydrocarbons. The hoses used should be Teflon lined with stainless steel cover. The flow gun itself should be a 6000 psi extrusion flow gun with various wand attachments.

To apply the 30 fl. oz. cartridge, use a manual or air-operated caulking gun.

PHYSICAL PROPERTIES:

Q-SEAL 290S

PROPERTY	VALUE	ASTM METHOD
Brookfield Viscosity	9,000 – 14,000 cps	
Color	Grey or Black	
Solids	85%	
Hardness	55 - 65 Shore A	D 2240-91
Elongation	300 – 600%	D 412
Specific Gravity	1.25	
Tensile Strength	500 psi	D 412

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

PACKAGING

Q-Seal 290S Grey or Black is available in 5 gallon pails and 30 fl. oz. cartridges. Shelf Life is 1 year from date of manufacture.

CLEAN UP

Use Chemque solvent S-235. Caution: Clean equipment after use. Use Chemque Q-CLEAN to remove sealant from your hands.

NOTES

In cases where the loop is to be installed in the road structure prior to the placement of the final asphalt wearing course, please contact Chemque for recommendations.

Q-Seal 290S Detector Loop Sealant exhibits exceptional chemical resistance to the following chemicals:

- De-icing salts
- Gasoline
- Hydraulic Brake Fluid
- Motor Oil
- Sodium Chloride (5%)

SAFETY AND HANDLING PRECAUTIONS

Contains MDI (methylene diisocyanate). Keep away from heat and open flames. Use only in well ventilated areas. Do not breath vapours. In case of contact, immediately flush eyes or skin with plenty of water for at least ten minutes. If contact is made with eyes, get immediate medical attention**.**

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