

# TECHNICAL DATA SHEET



## PERMANENT SEALER HIGHWAY JOINT SEALANT 983

### DESCRIPTION

Ruscoe Permanent Sealer 983 is a one part, elastomeric, nitrile rubber material that readily extrudes over a wide temperature range and cures to produce a durable, tough, flexible rubber highway joint seal unaffected by water, chemicals or fuels. Due to its excellent adhesive characteristics and good extension/compression recovery, Ruscoe 983 gives outstanding performance in highway joints in which extreme movement occurs.

### SUGGESTED USES

Ruscoe Permanent Sealer 983 nitrile rubber sealant is especially effective for sealing transverse and longitudinal contraction and expansion joints, center line and should joints. These joints can be on a bridge or roadway. It can be used as the original sealant in new concrete or to repair old construction sealant.

Ruscoe 983 is uniquely effective as a joint sealant between a concrete roadway and an asphaltic concrete shoulder. It will bond to both materials to assure no intrusion of water into the joint.



### FEATURES

Easy application – one part ready to use as supplied; no mixing is required; dispensed directly from container into the joint.

- No priming
- No tooling
- Superior adhesion
- Fast drying
- Seals irregular surfaces
- Good weatherability
- Elastic
- Exceeds Federal Specification TT-S-00230C Type II, Class A, except for 3.5.5, weight loss.

### METHOD OF APPLICATION

Permanent Sealer 983 when packaged in cartridges can be applied with handheld cartridge guns, available in manual, air, and rechargeable battery pack type guns. When using 5-gallon pails, a follower plate air pump is necessary. There are several manufacturers of these pumps and additional information is available by contacting The Ruscoe Company customer service.

Being a self-leveling sealant, Ruscoe's 983 Highway Join Sealant never needs "tooling". The sealant will seek its own level and flow even into areas which may be spalled or have irregular shapes. The solvent evaporation cure takes effect almost immediately by "skinning" over within 10 minutes to a tack free surface.

Permanent Sealer 983 is an adhesive formulated sealant and adheres to virtually any substrate with which it comes into contact, except for expanded polyethylene foam backer rod. This backer should be used in all sealant work, whether new construction or repair. Backer rod should be a minimum of 1/8" larger than the width of the joint.

### STORAGE AND SHELF LIFE

When stored in unopened, original containers at or below 90°F (32°C), Ruscoe Permanent Sealer 983 has a shelf life of one year from the date of shipping. Keep all containers tightly closed.

### HEALTH AND SAFETY

Health and safety data sheets available upon request at The Ruscoe Company.

### DRYING

Traffic may be resumed within 10 minutes without pick up or tracking.

### COLORS

Ruscoe Highway Joint Sealant is available in two colors, Black and Gray.

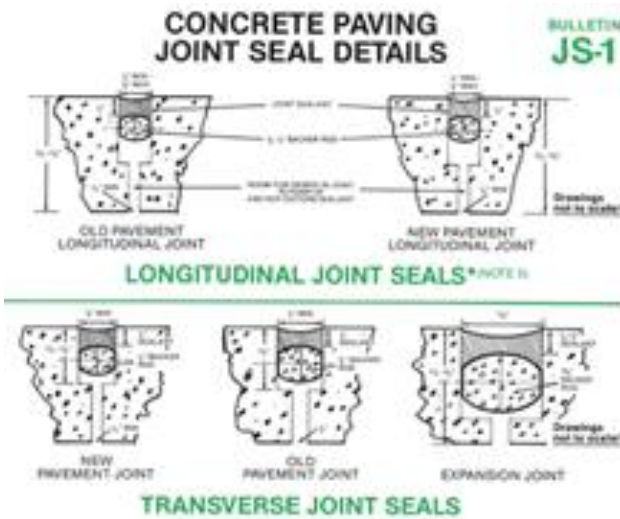
### LIMITATIONS

Ruscoe Permanent Sealer 983 should not be used on vertical sealing applications. The self-leveling product would flow down. For vertical curb sealing on bridge decks use Ruscoe 965.

Ruscoe 983 can be used for constant water immersion; however, the sealant should be allowed to cure the full 28 days prior to immersion.

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### TYPICAL PROPERTIES

Color	Black, Grey
Solvent Formulation	Methyl Isobutyl Ketone
Flash Point of Solvent	60°F (15.5°C)
Drying Time – ASTM D1640	Dry to touch 2 – 3 mins
Viscosity, Brookfield, Spindle #7 @ 4 RPM	350,000 – 450,000
Pounds Per Gallon @25°C (77°F)	8.4
Shelf Life	12 Months

### PERFORMANCE PROPERTIES OF CURED SEALANT

Flow, Sag or Slump (1/4" Bead)	Self-Leveling
Cure Time, @77°F (25°C), days	21 – 28
Full Adhesion, days	7
Tack Free Time @77°F (25°C), minutes	10 minutes or less
Chemical Resistance ASTM D471	No effect by use of deicing chemical, gasoline, hydraulic brake fluid, motor oil, calcium chloride (5%), or jet fuel



All statements, technical information and recommendations contained herein are based on tests believed to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties expresses or implied.

Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nr manufacturer shall be liable for any injury, loss, or damage, direct or consequential, arising out of the use of, or the inability to use the product. Before using, user shall determine the suitability of the product for their intended use and user assumes all risk and liability whatsoever in connection therewith. The foregoing many are not changed except by an agreement signed by officers of seller or manufacturer.