RJ Watson Inc

Silicoflex Locking Adhesive

Data Sheet

Basic Use

Silicoflex Locking Adhesive is specially formulated to adhere the Extruded Silicoflex Bridge Expansion Joint to a concrete, elastomeric concrete, polymer concrete, or steel joint interface. It can also be used with backer rod as a water-tight joint sealing system for bridge expansion joints.

Product Description

Silicoflex Locking Adhesive is a one-part neutral curing, medium-modulus silicone sealant. Cured in the presence of atmospheric moisture, locking adhesive skins within minutes, cures through (1/4" bead) in less than 24 hours and exhibits excellent green strength.

Preparation

Proper surface preparation should consist of removing all contaminates and foreign materials utilizing appropriate cleaning solvents. The moisture content of substrate should be 12% or less.

Installation

Please refer to the "Silicoflex Installation Procedure".

Drying Time

Tack free time for Silicoflex Locking Adhesive is 5-20 minutes depending on temperature and humidity and is fully cured in under 24 hours.

Packaging

29 oz. (.858 L) caulking tube, single component.

Features

Silicoflex Locking Adhesive will retain its elastomeric properties at temperatures ranging from -60°F to 350°F (-51°C to 177°C). Tenacious adhesion, extreme movement capabilities, and high strength.
No cracking, ozone chalking, or degradation.

Precautions

Use with adequate ventilation. Contact with uncured sealant or with vapors generated during curing may cause respiratory tract irritation. Contact with skin or eyes may cause irritation or allergic reaction. Wash thoroughly after handling. May be harmful if swallowed. Refer to Material Safety Data Sheet for detailed health and safety information prior to use.

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Storage

Silicoflex Locking Adhesive must be stored in a dry area at temperatures between 40°F (4°C) and 80°F (27°C).

Shelf Life

One year shelf life from the date of manufacture in unopened container.

Typical Physical Properties

Test Property	Value	Test Procedure
Tensile Strength (PSI)	225	ASTM D412
Elongation (%)	550	ASTM D412
Tack Free Time (minutes)	5-20	ASTM C679
Cure Time (1/4" bead) (hours)	<24	ASTM C679
Color	Charcoal	
VOC (g/L)	50	ASTM D3960
Hardness Shore A	27	ASTM D661
Modulus, 100% Elongation (PSI)	55	ASTM D412
Dynamic Joint Movement (%)	±50	ASTM C719
Peel Adhesion Strength (Pli) after 7 Days Water Immersion	21.4	ASTM C794
Resistance to UV	No cracking, Ozone Chalking, or Degradation	ASTM C793