



SPECTON CONSTRUCTION PRODUCTS LTD.

FLEX F1000

WATER ACTIVATED POLYURETHANE RESIN

TECHNICAL DATA

SPECTON FLEX F1000

A single component, hydrophobic polyurethane injection resin designed for sealing leaks through cracks, rock pockets, expansion and control joints in concrete structures. This resin and accelerator mixture reacts when it comes in contact with water and forms a micro cellular closed cell gasket with excellent adhesion and long-term flexibility. The cured hydrophobic compression gasket that is formed in the joint or crack remains stable and is highly resistant to degradation resulting from repeated freeze/thaw and wet/dry cycles.

RECOMMENDED FOR

Sealing leaking cracks and joints in concrete structures such as:

- Parking Garages
- Potable Water Tanks
- Dams and Powerhouses
- Tunnels (Subways and Highways)
- Elevators and Service Pits
- Canals
- Swimming Pools
- Underground Utilities and Municipal Services
- Waste Water Treatment Plants
- Processing Plants
- Industrial, Commercial and Residential Poured Concrete Foundations.

FEATURES / BENEFITS

Safe –

Tested and classified by UL in accordance with Standard ANSI/NSF 61 for contact with potable water. 100% solids and harmless to the environment.



ANSI / NSF 61
Drinking water system components
4P97

Adjustable Accelerator Dosage –

Controlling the accelerator dosage on site allows the applicator to react to a variety of changing conditions.

Stable –

Cured resin withstands thermal expansion/contraction, wet/dry cycles, freeze/thaw cycles and crack movement without degradation.

Chemically Resistant –

Essentially unaffected by corrosive environments. Excellent resistance to fungi, gases and chemicals typically found in soil and standard commercial structures. Resistant against biological attack.

Proven Track Record –

Flex F1000 has been successfully used for over 14 years in North America and remains the product of choice by engineers, owners and specialty concrete restoration contractors.

Applicator Friendly –

No unpleasant odors and Flex F1000 is easily injected using single component injection equipment.

COMPOSITION / CHARACTERISTICS

SPECTON FLEX F1000 – Uncured Resin

Appearance		Yellow Liquid
Viscosity at 25°C	ASTMD-4878-98	600 cps ± 100
Density at 25°C	ASTMD-789-98	1.065
Flashpoint	ASTMD-1310-86	>150°C

SPECTON FLEX F1000 – Uncured Accelerator

Appearance		Dark Grey Clear Liquid
Viscosity at 25°C	ASTMD-4878-98	10 cps ± 3
Density at 25°C	ASTMD-789-98	0.995
Flashpoint	ASTMD-1310-86	>150°C

SPECTON FLEX F1000 – Cured

Hardness	ASTMD-2240-00	37 Shore A
Tensile Strength	ASTMD-1623-78	1.1 MPa
Elongation		>250%
Toxicity		Non Toxic

FLEX F1000

WATER ACTIVATED POLYURETHANE RESIN

MIXING AND HANDLING

1 Wear rubber gloves and safety glasses and/or a safety shield when mixing or handling the products. Familiarize yourself with the MSDS guidelines and information. Mix and install the materials in a well ventilated area.

2 Using clean and dry mixing containers and measuring cups, add between 2% to 10% Accelerator to the Resin depending on the desired reaction time. Refer to the *Reaction Time vs Temperature* graph as a guideline to assist with dosages of accelerator.

It is always recommended to perform a small site test to determine the reaction time of the resin and accelerator mixture.

3 Mix the resin and accelerator thoroughly with an electric drill and mixing paddle.

4 Install or inject the resin mixture using a single component pump.

5 Clean the injection pump every few hours with Specton Pump Flush or when the injection work is completed.

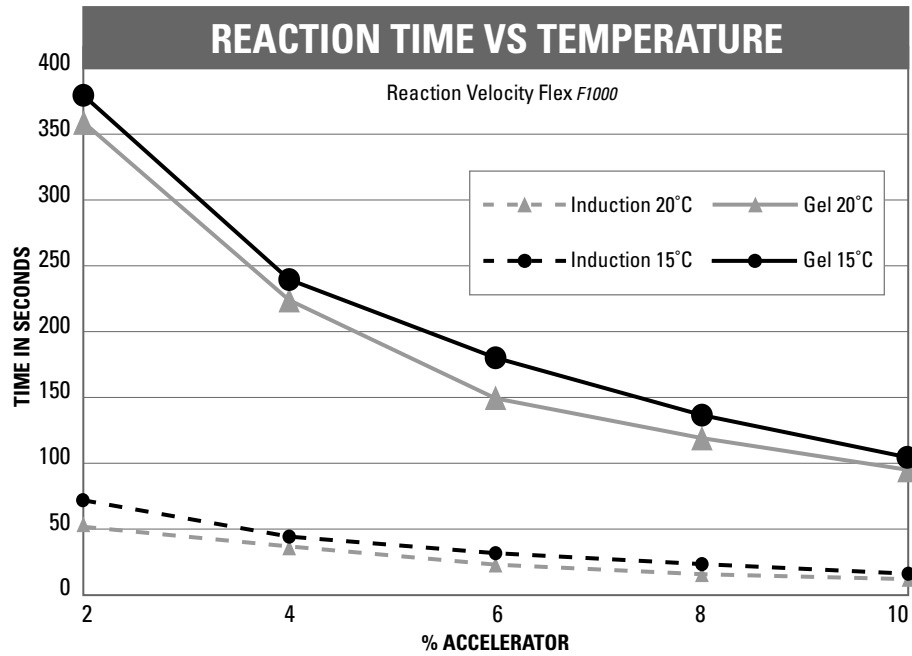
APPLICATION

Contact a Specton Technical Representative for specific application guidelines for your injection project.

Refer to SPECTON's proven **SPEC-IT (SPECTon Injection Technique)** installation guidelines for crack injection, expansion joints and manhole repair.

STORAGE

Specton polyurethane resins and accelerators are moisture sensitive and should be stored in dry conditions at temperatures below 24°C (75°F). Do not allow the polyurethane resins and accelerators to freeze or to be stored in temperatures below 0°C (32°F).



SAFETY PRECAUTIONS

- Avoid contact with skin or eyes.
- Familiarize yourself with the MSDS and follow safety precautions indicated.
- Mix and apply the materials in a well ventilated area.
- In addition to conventional construction safety equipment, wear rubber gloves and a safety visor.

PACKAGING

Specton FLEX F1000 Resin – 20 Kg PAILS
Accelerator – 2 Kg BOTTLES

All recommendations, data and statements contained within this document are based on tests we believe to be correct, but are not to be construed as a warranty either expressed or implied. The user shall rely on his or her own tests and information to determine the suitability of the product for the application and assumes all risk and liability resulting from his or her use of the product. The seller's and manufacturer's sole responsibility shall be to replace that portion of product that is proven to be defective. Neither the seller nor the manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from the use or inability to use the product.

PLEASE CONTACT US FOR ADVICE AND PRODUCT INFORMATION

Specton Technical Representatives are available to assist you with specific guidelines for your project and product requirements. We can be reached at:

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