Technical Data Sheet

PRIME FLEX™ 900 XLV

Water-activated polyurethane foam injection resin

DESCRIPTION

Prime Flex 900 XLV is an extra thin liquid resin that reacts with water and expands to form a closed cell, watertight foam. 900 XLV is used to seal actively leaking joints and cracks in concrete structures, particularly hairline cracks. Material is typically injected under pressure through injection ports.

This is a single-component, water-activated, hydrophilic, extra low viscosity, polyurethane injection resin.

TYPICAL AREAS OF USE

- Water treatment tanks
- Dams
- Below-grade concrete walls
- Tunnels, manholes
- Elevator service pits

ADVANTAGES

- **NSF/ANSI Standard 61 compliant for contact with potable water**
- Single-component; no catalyst or accelerators needed
- Pump material straight out of the pail
- Extremely tough and flexible. Can expand and contract parallel to the crack in varying temperatures.
- Up to 600% expansion (unconfined)
- Super low viscosity will penetrate tight cracks

PACKAGING

- 1 gallon jugs (case of 4)
- 5 gallon pail
- 2:1 Quick Mix cartridge (case of 10)
- 10 oz Single Shot cartridge (case of 20)

Packaged under a dry nitrogen blanket.

MIX RATIO

Uses available water to initiate reaction. Inject as a single component or twin stream 2 parts resin to 1 or 2 parts water.

MATERIAL PREPARATION

Store material overnight to precondition to between 70 and 80ºF (21 and 27ºC) prior to use. It is not necessary to pre-mix Prime Flex 900 XLV prior to use.

LIMITATIONS

Cold temperatures will slow down reaction time and increase viscosity. pH below 3 or above 10 may adversely affect foam properties.

STORAGE

Store in dry environment between 40 and 80ºF (4-27ºC). Shelf Life: 18 months from date of manufacture in unopened containers properly stored.

ACCESSORY PRODUCTS

Eco Flush, oakum, injection ports, Prime Plug, injection pumps.

Typical Data: Physical Properties at at 73ºF (23ºC) - Liquid

Properties will vary depending upon site conditions, application method, mixing method and equipment, material temperature, and curing conditions.

Solids content 88%

Viscosity 250-350 centipoise

Cured

Tensile strength	ASTM D-3574	450 p.s.i.
Tensile elongation	ASTM D-3574	350%
Shrinkage	ASTM D-1042 / D-756	Less than 2%
Tear resistance	ASTM D-3574	21 lbs. / inch

These properties were based on foam cured under pressure to simulate conditions inside a confined crack. Properties will vary depending on application conditions.

Reaction times 73ºF (23ºC)

Initial reaction	30 seconds
Full rise	1 minute, 50 seconds
Full cure	24 hours

CLEANUP

Flush injection equipment with Prime Flex Eco Flush.
Clean off of skin with soap and water.
Remove cured material by soaking in Prime Flex CGC (not appropriate for contact with plastic).

FIRST AID

Eye Contact: Immediately flush with large amounts of water. Seek medical attention.
Inhalation: Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention.
Ingestion: Seek medical attention immediately.
Skin Contact: Wipe off contaminated area and wash with soap and water.

SAFETY

Use OSHA-approved personal protective equipment (PPE), including safety glasses, gloves and confined space equipment/procedures if applicable. Avoid skin contact; do not ingest. See MSDS/SDS for complete safety precautions. For professional use only.

SHIPPING INFORMATION

Shipping Class: Motor Freight Class 60
Hazard Classification: Non Hazardous

ENVIRONMENTAL PROTECTION

Cured material is environmentally safe. Dispose of in approved landfill. Clean up any spilled catalyzed liquid material and add a small amount of water to cure unreacted material.

MANUFACTURING INFORMATION

Products are manufactured by Prime Resins, Inc. in the U.S.A. under strict quality assurance practices at our Conyers, GA plant.

WARRANTY & DISCLAIMER

Prime Resins, Inc. warrants its products to be free from manufacturing defects and that products meet the published characteristics when tested in accordance with ASTM and Prime Resins standards. No other warranties by Prime Resins, Inc. are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. Prime Resins, Inc. will not be liable for damages of any sort resulting from any claimed breach of warranty. Prime Resins' liability under this warranty is limited to replacement of material or refund of sales price of the material. There are no warranties on any product that has exceeded the "shelf life" or "expiration date" printed on the package label.