PRIME FLEX™ 920

Water activated rigid polyurethane foam injection resin.

ADVANTAGES:

- Pumped as single component.
- Very low viscosity for good penetration.
- Up to 2900% expansion (unconfined).
- Controllable set time.
- Encapsulates and strengthens loose soil.
- Watertight.

CONFORMS TO:

ANSI/ NSF Standard 61 for contact with Drinking Water

PACKAGING:

- 5 gallon pail
- 50 gallon drum
- 300 gallon tote
- 10:1 "Quick Mix" Cartridge (case of 6) with Kick Fast catalyst

DESCRIPTION AND USES:

Detailed Description
Prime Flex 920 is a very thin liquid resin that reacts with water and expands to form a closed cell, watertight, rigid foam. 920 is used to fill voids, stabilize soil, and cut off gushing leaks. Material is typically injected under pressure through injection ports.

Technical Description
Single component, water activated, hydrophobic, low viscosity, polyurethane injection resin. Requires use of Prime Kat or Kick Fast catalyst.

Uses
Cutting off gushing water leaks in below grade structures.
Stabilizing soil.
Curtain grouting manholes, pipe joints, tunnels, etc.
Point grouting.

Typical Structures
Manholes, pipe joints, box culverts, tunnels, storm sewers, retaining walls, seawalls, below grade parking decks, earthen dams, etc...

PHYSICAL PROPERTIES:

Physical Properties 73° F- Liquid
Solids Content 100%.
Viscosity 110-130 Centipoise.

Physical Properties - Cured

Tensile Strength	(ASTM D-3574)	41 p.s.i.
Tensile Elongation	(ASTM D-3574)	3.4%
Shrinkage	(ASTM D-1042 / D-756)	None
Compressive Strength (with fine sand)	(ASTM C-39)	970 p.s.i. or 10,080 p.s.f.

Properties will vary depending on application conditions.

Reaction Times 73° F (23° C)

Prime Kat

Quantity by Volume	2.0%	5%	7.5%	10%
Intial Reaction	13 sec	11 sec	9 sec	5 sec
Full Rise	2min, 10 sec	52 sec	41 sec	31 sec

Kick Fast catalyst (Not recommended to use Kick Fast below 5%)

Quantity by Volume	5%	7.5%	10%s
Initial Reaction	<5 sec	< 5 sec	< 5 sec
Full Rise	22 sec	16 sec	11 sec

GENERAL GUIDELINES:

Material Preparation Store material overnight to precondition to 70°-80° F prior to use. If using less than full pail, pre-mix material prior to adding Prime Kat.

Mix Ratio and Mixing Procedures: Use Reaction Times to determine amount of Prime Kat or Kick Fast catalyst to add to the 920. One 33 oz bottle per 5 gallons of 920 equals 5% mix ratio. Two 33 oz bottles is the maximum dose at 10%. Only mix the amount of material that can be used within 12 hours. Thoroughly mix materials using a low speed drill with a mixing paddle. Once catalyst has been added, the 920 will react upon contact with moisture.

How To Use: For more info, see www.primeresins.com/primepractices.php

Accessory Products: Eco FLush, Injection Ports, Oakum, Prime Plug, Pumps

Personal Protection: Safety Glasses, gloves, avoid skin contact, do not ingest, for professional use only, see MSDS. For use in well ventilated areas only to keep vapor concentrations low. Use mechanical ventilation if necessary. Use self contained breathing apparatus in confined areas.

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).

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.

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.

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

Warranty: Prime Resins 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 are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. Prime Resins 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.

Storage: Store in dry environment between 40° and 80° F.
Shelf Life: 18 months from date of manufacture in unopened containers properly stored.

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