

Prime
Flex

Prime
Rez

Prime
Gel

Prime
Bond

Prime
Coat

Joint
Shield

Prime
Guard

Prime
Patch

PRIME FLEX™ HYDRO GEL SX

Water activated flexible polyurethane foam or gel injection resin

ADVANTAGES:

- Single component.
- Forms flexible foam or gel depending on mix ratio with water.
- Non Flammable
- Super low viscosity will penetrate tight cracks and loose soil.
- Tenacious bond to wet concrete.
- High elongation allows for thermal or structural movement

CONFORMS TO:

ANSI / NSF Standard 61 for contact with Drinking Water

PACKAGING:

- 5 gallon pail
- 10 oz "Single Shot" Cartridge (case of 20)
- 1:1 "Quick Mix" Cartridge (case of 10 includes Gel Reinforcing Agent)

DESCRIPTION AND USES:

Detailed Description

Hydro Gel SX is a thin liquid resin that reacts with water to form either a closed cell, watertight foam or impermeable gel depending on the water to resin mix ratio (Range = 1:1 to 15:1 Water:Resin). Hydro Gel SX is used to seal actively leaking joints and cracks in below grade concrete structures. Material is typically injected under pressure to curtain grout behind porous structures. It is also used for soil stabilization.

Technical Description

Single component, water activated, hydrophilic, polyurethane injection resin (foam or gel).

Uses

Curtain grouting manholes to seal leaks.

Soil Stabilization

Oil Free Oakum or Open Cell Backer Rod may be soaked in Hydro Gel SX to create a watertight gasket.

Typical Structures

Manholes, Dams, Below Grade Concrete Walls, Tunnels, Elevator Service Pits, Excavation Pits, Tunneling Launch Pits

PHYSICAL PROPERTIES:

Physical Properties 73° F- Liquid

Viscosity 440 - 550 Centipoise (neat resin)

Viscosity @ 8:1 20 cps

Solids Content 82% Physical Properties - Cured

Tensile Elongation

(ASTM D-1564) 100%-150%

Shrinkage

(1 Week @ 100% R.H. 700 F) None

Toxicity

Non toxic in cured form

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

Gel Time 70° F @ 8:1 Mix Ratio 50 - 70 seconds

GENERAL GUIDELINES:

- Material Preparation** Store material overnight to precondition to 70°-80° F prior to use. It is not necessary to pre-mix Prime Flex Hydro Gel SX prior to use.
- Mix Ratio and Mixing Procedures:** Uses available water to initiate reaction. Inject as a single component or "Twin Stream" 8 parts water to 1 part resin (typical). Injecting higher ratios of water will yield weaker gel.
- How To Use:** See www.primeresins.com/primepractices.php
- Accessory Products:** Gel Reinforcing Agent, Eco Flush, Oakum
- 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.
- Environmental Protection:** Cured material is environmentally safe. Dispose of in approved landfill. Clean up any spilled 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
- Manufacturer Information:** This product is manufactured by Prime Resins under strict quality assurance practices at our Conyers, GA plant.



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