

Prime
Flex

Prime
Rez

Prime
Gel

Prime
Bond

Prime
Coat

Joint
Shield

PRIME FLEX™ 910

Water activated rigid polyurethane soil stabilization resin

ADVANTAGES:

- Encapsulates and strengthens loose soil
- Very low viscosity for good penetration.
- Watertight
- Controllable Set Time
- Pumped as Single component.

PACKAGING:

- 5 gallon pail
- 50 gallon drum
- 300 gallon tote

DESCRIPTION AND USES:

Detailed Description

Prime Flex 910 is an extremely thin liquid resin that reacts with moisture when injected into soil forming a rock hard, water tight mass. 910 is used to stabilize loose soil or sand, stop underground water flows, and seal leaking sea walls.

Technical Description

Single component, water activated, hydrophobic, low viscosity, polyurethane injection resin. Requires use of Prime Kat catalyst.

Uses

Stabilizing loose sand and soil.
Tie Back Anchors

Typical Structures

Sea Walls
Tunnel and Boring Equipment Launch Pits
Earthen Dams
Walls of Excavation Pits
Soil Beneath Foundations
Sink Holes

PHYSICAL PROPERTIES:

Physical Properties 73° F- Liquid

Solids Content 100%. Viscosity 35-50 Centipoise

Physical Properties - Cured

Tensile Strength	(ASTM D-3574) 23 p.s.i.
Tensile Elongation	(ASTM D-3574) 3%
Shrinkage	(ASTM D-1042 / D-756) None
Compressive Strength (with fine sand)	ASTM D575 / D695 745 p.s.i.

Properties will vary depending on application conditions.

Reaction Times 73° F (23° C)

Kat to 910 Mix Ratio*	Cream Time (test), Set Time (test), Kat to 910 Mix Quantities	Full Cure (test)		
		Initial Reaction Time	Set Time	Expansion
10%	13 oz. to 1 gal.	12 sec.	30 sec	29x
7.5%	10 oz. to 1 gal.	12 sec.	47 sec.	28.5x
5%	7 oz. to 1 gal.	20 sec.	70 sec.	26.5x
3.5%	5 oz. to 1 gal.	30 sec.	80 sec.	23.5x
1%	1.5 oz. to 1 gal.	90 sec.	5 min. 30 sec.	13.5x

*Maximum mix ratio of Prime-Kat Clear to Prime-Flex 910 is 10% by volume.
(13 ounces Prime-Kat Clear to 1 gallon of Prime-Flex 910)

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 above to determine amount of Prime Kat to add to the 910. One 33 oz bottle of Prime Kat per 5 gallons of 910 equals 5% mix ratio. Two 33 oz bottles of Prime Kat 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 Prime Kat has been added, the 910 will react upon contact with moisture.
- How To Use:** For more info, see www.primeresins.com/primepractices.php
- Accessory Products:** Eco Flush, Soil Probes, Pumps, Pipe Jack
- 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
- Manufacturer Information:** This product is manufactured by Prime Resins under strict quality assurance practices at our Conyers, GA plant.



www.primeresins.com

2291 Plunkett Road Tel: (770) 388-0626
Conyers, GA 30012 Fax: (770) 388-0936

24 / 7 TECH SUPPORT 800-321-7212