



DESCRIPTION

Prime Flex 910 is an extremely thin liquid resin that reacts with moisture when injected into soil forming a rock hard, watertight mass. 910 is used to stabilize loose soil or sand, stop underground water flows, and seal leaking seawalls or other below-grade structures.

Prime Flex 910 is a single-component, water-activated, hydrophobic, super low viscosity polyurethane injection resin. It requires the use of Prime Kat catalyst.

TYPICAL AREAS OF USE

- Highways, roads and bridges
- Airport runways and taxiways
- Earthen dams
- Excavation pits and tunneling launch pits
- Seawalls
- Retaining walls
- Sink holes

ADVANTAGES

- Encapsulates and strengthens loose soil
- Watertight
- Controllable set time
- Pumped as a single component

PACKAGING

- 45 lb. pail
- 50 gallon drum
- 300 gallon tote

MIX RATIO

Use reaction times above to determine amount of Prime Kat to add to the 910. For permeation grouting, use 1/2% to 1% by volume of Prime Kat.

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.

MATERIAL PREPARATION

Store material overnight to precondition to 70-80°F (21-27°C) prior to use. If using less than full pail, pre-mix material prior to adding Prime Kat.

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 80°F (4-27°C). Shelf Life: 18 months from date of manufacture in unopened containers properly stored.

Typical Data: Physical properties at 73°F (23°C) - Liquid

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

100% solids

viscosity: 35-50 centipoise

Note: Viscosity scale for Prime Resins products: 50 and under= super low, 51-100= very low, 101-400= low, and 401-1000= medium viscosity.

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 D695	745 p.s.i.

Reaction times at 73°F (23°C) based on 2.5 ml water per oz. of resin

Kat to 910 mix ratio¹	Kat to 910 mix quantities	Initial reaction time	Set time	Unconfined¹ 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

¹ Unconfined expansion is tested in an open cup, without soil, and in laboratory conditions. Actual expansion when injected into soil or sand will vary depending on soil conditions (soil type, porosity, compaction, water pressure, etc.) as well as temperature, pressure, catalyst content, etc. Expansion in soil or sand is significantly less than unconfined expansion.

² Maximum mix ratio of Prime Kat to Prime Flex 910 is 10% by volume.

ACCESSORY PRODUCTS

Prime Kat, Eco Flush, soil probes, pumps, pipe jack

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.

SHIPPING INFORMATION

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

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 SDS for complete safety precautions. For professional use only.

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

This product is manufactured by Prime Resins, Inc. 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.