

Technical Datasheet

Prime Flex SWF



Two component polyurethane foam for filling voids and sealing defects behind seawalls

Description

Prime Flex SWF is a two-component polyurethane injection resin used to fill voids, stabilize soils and seal defects behind seawalls. The slow set time combined with the guaranteed reaction of a two-component system allows the resin to penetrate the soils thoroughly, greatly reducing chances of unreacted 'pockets' of material.

Primary Applications

Permeation grouting for soil stabilization, void fill and defect sealing behind seawalls.

Advantages

- Low viscosity: permeation into fine areas
- Two component alternative to Prime Flex 920 used for geotechnical applications
- Higher strengths
- Slower reaction time for deeper injection
- Economical

Technical information: Physical properties at 72°F (22°C)

Properties will vary depending upon site conditions, application method, mixing method and equipment, material temperature, and curing conditions. 100% solids.

Physical Properties - Free Rise	Results	Test Method
Tensile strength	102 psi @ 11.6% elongation	ASTM D638
Compressive strength	61 psi	ASTM D1621

Physical Properties - Confined	Results	Test Method
Tensile strength	340 psi @ 14.4% elongation	ASTM D1623

Physical Properties - permeated in ASTM 20-30 sand	Results	Test Method
Compressive strength	4270 psi	ASTM D695
Splitting tensile strength	1547 psi	ASTM C496

Packaging

5 Gallon pail

50 Gallon drum

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Full cure (test) initial reaction	Set time	Unconfined expansion ¹
30-35 seconds	3 minutes 45 seconds	17x

¹ At free rise density of 4.2 pcf

Material Preparation: Store material overnight to precondition to 70-80°F (21-27°C) 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 & Clean Up

Storage: Store in dry environment between 40 and 80°F (4 and 27°C). Shelf Life: 18 months from date of manufacture in unopened containers properly stored.

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

Environmental Protection

Cured material is environmentally safe. Dispose of in accordance to federal, state and local regulations.

Shipping

Shipping Class: Motor Freight Class 60

Hazard Classification: Non-Hazardous

Health & Safety

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

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. Wash with soap & water.

Manufacturing

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

Warranty & Disclaimer

Prime Resins Inc. warrants their 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 the Manufacturer are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. The Manufacturer will not be liable for damages of any sort resulting from any claimed breach of warranty since it has no control over how the products are used and applied. The Manufacturer's 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.

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