

Technical Datasheet

SOILOK



Grout for Soil Binding and Stabilization

Description

SoiLok is an extremely thin liquid resin that reacts with moisture when injected into soil forming a pliable gel. SoiLok is a soil binding system (a subterranean grout) used to stabilize loose soil or sand, stop underground water flows, and seal leaking seawalls or other below-grade structures. It is a polyacrylamide grout resin. The super low viscosity designed to penetrate fine silts, sands, coarse sands and top soil to a desired depth, either below the water surface, below the water bed, or all the way to bedrock.

Typical Uses

- Earthen dams and levees
- Bridge, highway and rail embankments
- Tunneling operations
- Curtain Grouting

Advantages

- Super low viscosity; nearly as thin as water, allowing for thorough permeation
- A true solution grout that contains no suspended solids in the blended product
- Flexible gel set times from seconds to hours
- A lifespan in soil more than 300 years as determined by the U.S. Department of Energy

Grouting Techniques

- Tube-a-Manchette (TAM) Grouting
- Probe Grouting
- Curtain Grouting
- Remote Packer

Compressive Strength with ASTM 20/30 sand

	10%	15%	20%	
7 day compressive strength (dry) (with ASTM 20/30 sand)	466 psi	582 psi	725 psi	ASTM C579
7 day compressive strength (wet) (with ASTM 20/30 sand)	27.1 psi	35.4 psi	45.1 psi	ASTM D695
7 day compressive strength (dry) (with sand/silt/pebble mix– top aggregate size 0.40")	901 psi	1152 psi	1438 psi	ASTM D695

NOTE: Mixing instructions are provided in detail on separate document.



LIMITATIONS

Performance will be influenced by site conditions, including the temperature of the mix water. If necessary heat the product to recommended operating temperatures of 60°-75°F (16°-24°C).

CLEANUP

Consult safety data sheet for complete info on clean-up and disposal.

FIRST AID

Consult SDS for complete information. When symptoms persist or in all cases of doubt seek medical advice. Also harmful by inhalation and if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

Eye Contact: Rinse immediately with plenty of water and seek medical advice.

Inhalation: If breathed in, move person into fresh air. Give oxygen or artificial respiration if needed. Call a physician immediately. **Ingestion:** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Obtain medical attention. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. **Skin contact:** Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

SHIPPING

- Shipping Class 77.5
- Hazard Classification 6.1
- UN 3426 (liquid), UN 2074 (granules), Pkg grp III
- Motor freight and air freight available

STORAGE

Store in a cool (60°-95°F or 16°-35°C), dry, well-ventilated area.

SAFETY

Use OSHA-approved personal protective equipment (PPE), including full face shield, respirator, chemical resistant clothing, 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. Use of this product is authorized by Prime Resins only after completion of the required Prime Resins Safety Guide test.

ENVIRONMENTAL PROTECTION

Environmental: Do not allow unreacted material to contaminate surface or ground water. Prevent product from entering drains. Cured material is inert. Dispose of according to local, state, and federal regulations. See SDS.

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.

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