Technical Datasheet

PR10L ACLM

Liquid Acrylamide Gel

Description

PR10L ACLM is a super low viscosity acrylamide grout that yields a gel upon reaction. The grout solution is as thin as water, allowing PR10 to follow infiltrating water for sealing leaks or to deeply penetrate soils for soil stabilization. The gel time is adjustable from a few seconds to several hours. The cured grout provides an economical water barrier or soil stabilizer.

Typical Uses

- Seal leaks in sanitary and storm water mainlines, pipe penetrations, laterals, lift stations and manholes. Stops leaks in tunnels and mines.
- Soil stabilization for slough control, slope control, erosion mitigation and other geotechnical applications.

Advantages

- Super thin liquid follows infiltration
- Will not undergo syneresis
- Higher strength compared to acrylates
- Greater longevity compared to silicates
- No suspended solids
- Can be injected through remote packer equipment
- Reaction times adjustable from seconds to hours

Grouting Techniques

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

Recommended Use

Inject **PR10L ACLM** using a stainless steel, dual-component pump from two tanks (see mix procedure). Injecting a 1:1 ratio into the soil or external substrate produces a strong, impermeable gel through a copolymerization reaction. Optional additives are available to modify the reactions and cured gel characteristics.

Optional Additives

PR17 LYTX – Increases strength and adhesive qualities (add to grout tank, tank A)
KFe (Potassium Ferricyanide)- Extends gel time (add to grout tank, tank A)
PR15 ETHG – Reduces freezing point, inhibits freezing of grout solution (add equal amounts to both tanks)
Dyes – Water tracer dyes used for tracking grout flow

Packaging

Product packaged by weight based on specific gravity

- 5-gallon pails
- 240-gallon totes

Properties

Uncured (liquid)

Appearance:	Clear liquid
Viscosity:	1-2 cP @ 72ºF (22ºC) in solution
Specific Gravity:	1.05 @ 77º (25ºC)
Weight:	8.73 lbs./gal (1.038 kg/L)
Toxicological:	See SDS

CURED

Appearance:	Clear to translucent gel
Hydraulic Conductivity:	$< 10^{-8}$ m/s
Static Pressure:	120 psi (2585 kPa)

Mix Procedure (see mixing instructions)

Tank A: Add 10 gallons (37.8 L) of water, add 15 gallons of PR10L ACLM to solution, add 0.5 gallons (1.9 L) of PR11 TEA and fill with water up to 30 gallons. Tank B: Add 10 gallons (37.8 L) of water, add 5 lbs. (2.27 kg) of PR12 AP, then bring to 30 gallons with water. Makes a 60 gallon (227 L) batch. All wetted parts must be stainless steel or plastic.

Shipping

- Shipping Class 77.5
- Hazard Classification 6.1
- UN 3426, Pkg grp III
- Motor freight and air freight available

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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 60º-75ºF (16º-24ºC).

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.

STORAGE

Store in a cool (60 to 90ºF or 16 to 32ºC), dry, well-ventilated area. Store away from PR11 TEA, PR12 AP, and PR13 SP. Liquid: Keep containers upright and tightly closed. Keep locked up or stored in an area accessible only to authorized users.

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 Acrylamide 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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