

PR10 L ACLM

Liquid Acrylamide Gel

Description

PR10 L ACLM is a super low viscosity acrylamide grout that yields a gel upon reaction. The grout solution is virtually as thin as water, allowing PR10 to follow infiltrating water for sealing leaks. Gel time is adjustable from a few seconds to several hours. The cured grout provides an economical water barrier.

Typical Uses

- Sealing leaks in sanitary and storm water mainlines, pipe penetrations, laterals, lift stations and manholes. Stops leaks in tunnels and mines.

Advantages

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

Grouting Techniques

- Tube-a-Manchette (TAM) Grouting
- Probe Grouting
- Curtain Grouting
- Remote Packers (available from Logiball, Inc.)

Recommended Use

Inject **PR10 L 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.

Required Additives - PR10 ACLM requires the use of **PR11 TEA** and **PR12 APSF**. Other accessories are optional.

PR11 - Activator

PR12 - Catalyst

Optional Additives

PR17 LYTX – Increases tensile 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

- 15 gallons sets (3 x 5-gallon pails)
- 240 gallons in a 275 gallon tote

Shipping

- Hazard Classification 6.1
- UN 3426 (liquid), Pkg grp III
- Motor freight and air freight available

Why choose liquid acrylamide vs granular?

- Safer for workers vs granular options (no possibility of airborns)
- Endothermic reaction (upon mixing acrylamide in water) has already occurred at plant (gel times stability upon mixing)
- No more beating up bags to break up the chunks
- Solids already diluted when mixing in grout tank A
- Reduce grout mixing time
- Ease of transfer (5 gallon pails of 40% liquid concentrate of acrylamide grout)
- Only mix what you need (eliminating wasted product)
- 12 month shelf life
- Easy to handle recyclable 19 liter pails

Mix Procedure to achieve 10% concentration (see mixing instructions)

Tank A: Add three pails to the A Side tank , 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.

Properties

Uncured

Appearance:	Clear liquid	Viscosity:	1-2 cP @ 72°F (22°C) in solution
Specific Gravity:	1.03 @ 77° (25°C)	Weight:	8.66 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)		

LIMITATIONS

Performance will be influenced by site conditions, including the temperature of the mix water. If necessary warm 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.

Harmful by skin contact, 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 (50 to 80°F or 10 to 27°C), dry, well-ventilated area. Store away from PR11 TEA, PR12 AP, and PR13 SP. Keep containers upright and tightly closed. Keep locked up or stored in an area accessible only to authorized users. The recommended materials of construction for storage and conveyance equipment (tanks, pipelines, etc.) are 304 and 316 stainless steel, polyethylene and PTFE.

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.

Rev. 08/26/2021