

Technical Datasheet

PR10 ACLM Chemical Grout



Granular Chemically-Reactive Gel

Description

PR10 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. 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
- Can be injected through remote packer equipment
- Will not undergo syneresis
- Reaction times adjustable from seconds to hours
- Higher strength compared to acrylates
- Greater longevity compared to silicates
- Available in granular or liquid form
- No suspended solids

Grouting Techniques

- Remote Packer
- Probe Grouting
- Curtain Grouting

Recommended Use

Inject PR10 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

- Bag (granules)= Net Wt. 50 lbs.

Shipping

- Motor Class 77.5
- Hazard Class 6.1
- Motor freight available
- Air freight available

Cleaning Products

Use water with light detergent.

Properties*

Uncured (solid)

Appearance:	White granules
Specific Gravity:	1.15 @ 72°F (22°C) in solution
Bulk Density:	1938 lbs./yd ³ +- 3% (1150 kg/m ³ +-3%)
Toxicological:	See SDS
Mix:	95% acrylamide to 5% MBA (Concentration range +/- 0.5%)

Uncured (liquid)

Appearance:	Clear water-white liquid
Viscosity:	1-2 cP @ 72°F (22°C) in solution
Specific Gravity:	1.04 @ 72° (22°C) +-3%
Weight:	8.66 lbs./gal +- 3% (1.038 kg/L +- 3%)
Toxicological:	See SDS

CURED

Appearance:	Clear gel mass/translucent
Hydraulic Conductivity:	< 10 ⁻⁸ m/s
Toxicity:	Non-toxic

* laboratory results

Mix Procedure (see mixing instructions)

For PR10 ACLM (granular)

Tank A: Add 15 gallons (56.8 L) of water, add one bag (granules) of PR10 ACLM to solution, add 0.5 gallons (1.9 L) of PR11 TEA and fill with water up to 30 gallons.

Tank B: Add 15 gallons (56.8 L) of water, add 5 lbs. (2.27 kg) of PR12 APSF, then bring to 30 gallons with water. Makes a 60 gallon (227 L) batch. Note: Ingredients are only compatible with stainless steel or plastic.

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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 between 60° and 75°F (16° and 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.

STORAGE

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

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 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 are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. Prime Resins 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.