

Technical Datasheet

PR12 APSF



Catalyst

Description

PR12 APSF is a catalyst to be used with PR10 ACLM acrylamide. It is a white crystalline solid and used as a polymerization initiator. Ammonium persulfate is a powder that is a required grout component. PR12 APSF decomposes over time as it is a strong oxidizing material.

Other Optional Additives for PR10 ACLM

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 = 55 lbs. (net weight)
- Drum = 220 lbs. (net weight)

Storage

Store in tightly closed containers in a cool, well ventilated area away from water, moisture, light, and heat. Store below 30° C (86° F). Storage of aqueous solutions above 25° C (77° F) may accelerate persulfate decomposition, which could affect reaction times. The recommended materials of construction for storage and conveyance equipment (tanks, pipelines, etc.) are 304 and 316 stainless steel, polyethylene and PTFE.

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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.

Properties*

Appearance:	White crystals
Viscosity:	1-2 cP @ 72°F (22°C) in solution
pH:	4—6 (1% solution)
Specific Gravity (water=1):	1.98
Solubility:	80g/ 100ml @ 25°C (77°F)

* Laboratory results

Mix Procedure for PR10 ACLM and additives (including PR 12 APSF—see mixing instructions)

Tank A: Add 10 gallons (37.8 L) of water, add one bag (granules) or one liquid drum 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 10 gallons (37.8 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. All wetted parts must be stainless steel or plastic.

Shipping

- Shipping Class 65
- Hazard Classification 5.1
- Motor freight and air freight available

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