

USG Super™ SD Polynaphthalene

Superplasticizer for Ultrafine SD Cementitious Grout



Description

USG Super SD Polynaphthalene from US Grout is a Sodium Polynaphthalene sulfonate that is used as the major ingredient in the formulation of various superplasticizer admixtures. It helps disperse cement particles and break agglomerates, thereby improving the fluidity of Ultrafine SD cementitious grout. It can be used to improve the rheological and mechanical properties of concrete (ie: workability, compressive strength and bending modulus of elasticity), helping to produce the following characteristics:

- Self-leveling
- High resistance to initial compression
- Good workability
- Low water/cement ratio
- Low cement content and low carbon footprint
- High performance

How USG Polynaphthalene SD Works

USG Super SD Polynaphthalene should only be used with Ultrafine SD. Each bag of Ultrafine SD grout is preblended with 0.9% by weight of USG Super WSD Polynaphthalene. For best results, Ultrafine SD grout must be mixed in a high shear colloidal mixer. If additional USG Super SD Polynaphthalene is required, it should be premixed with the measured amount of mix water prior to adding Ultrafine SD grout.

Packaging – product is packaged by weight and is based on specific gravity (net wt.)

- Dry Bag – 55 lbs. (25 kg)

Mix Guidelines - See Mixing Guidelines available 24/7 at avantigrout.com

These precise mixing instructions must be followed for best results:

1. The mixer should be a high-shear “colloidal” mixer.
2. Recommended water/dry grout ratio is 0.8/1 by weight.
3. Add water to mixer and set unit on high speed.
4. Slowly add dry Ultrafine SD grout to mixer.*
5. Mix at high speed for desired time limit.

*If additional USG Super SD Polynaphthalene is required, it should be premixed with the measured amount of mix water prior to adding Ultrafine SD.

IMPORTANT: Only use USG Super SD Polynaphthalene with Ultrafine SD.

USG Super VX Polycarboxylate is NOT compatible with Ultrafine SD and will negatively affect the set time and strength of the cement.

Dosage Rate

If additional USG Super SD Polynaphthalene superplasticizer is desired in the mix, it is recommended not to exceed an additional 0.5% by weight based on Ultrafine SD cement grout weight. Additional USG Super SD Polynaphthalene can cause longer set times and lower compressive strengths.

Cleaning

Use water with light detergent.

Storage

Store in temperatures within or near 60°F – 100°F (16°C - 38°C) in a dry atmosphere. Do not subject to freezing temperatures.

Safety

Always use OSHA-approved personal protective equipment (PPE). Refer to the SDS for complete safety precautions. The SDS is available by request or via download at avantigrout.com.



AVANTI

Stop leaks. Stabilize soil.
Control groundwater. **Permanently.**

TECHNICAL DATA SHEET

Shipping – Motor or Air Freight available

- Motor class 55
- Non-hazardous

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