



## TECHNICAL DATA SHEET

# USG SUPER™ POLYNAPHTHALENE

### SUPERPLASTICIZER FOR ULTRAFINE SD

#### DESCRIPTION

**USG Super Polynaphthalene** 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 IT WORKS

**USG Super Polynaphthalene should only be used with Ultrafine SD.**

Each bag of Ultrafine SD grout is preblended with 0.9% by weight of Polynaphthalene Super Plasticizer. For best results, Ultrafine SD grout must be mixed in a high shear colloidal mixer.

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

**Never mix USG Super Polynaphthalene with Ultrafine VX or USG Super Polycarboxylate.** The two materials are incompatible and will negatively affect the set time and strength of the cement.

#### PACKAGING

- 25 kg (55 lbs.) dry bag

#### SHIPPING

- Motor Class 55
- Non-Hazardous

#### DOSAGE RATE

If additional USG Super 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 Polynaphthalene superplasticizer can cause longer set times and lower compressive strengths.

#### CLEANING PRODUCTS

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](http://avantigrout.com).

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