



## TECHNICAL DATA SHEET

# POLYNAPHTHALENE

## SUPERPLASTICIZER

### DESCRIPTION

Avanti's 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 concrete. 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

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 **Polynaphthalene** with **Ultrafine VX**. 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 5
- Non-Hazardous

### DOSAGE RATE

If additional Polynaphthalene superplasticizer is desired in the mix, it is recommended not to exceed an additional 0.5% by weight based on cement grout weight. Additional 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.

### 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).

### NOTICE

The data, information and statements contained herein are believed to be reliable but are not construed as a warranty or representation for which Avanti International assumes any legal responsibility. Since field conditions vary widely, users must undertake sufficient verification and testing to determine the suitability of any product or process mentioned in this or any other written material from Avanti for their own particular use. **NO WARRANTY OF SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE.** In no case shall Avanti International be liable for consequential, special, or indirect damages resulting from the use or handling of this product.