



TECHNICAL DATA SHEET

USG SUPER™

SUPERPLASTICIZER

DESCRIPTION

USG Super is a liquid or dry powder polycarboxylate-based superplasticizer that when used with Ultrafine Grout VX, improves flow characteristics of the cementitious grout, allowing for the successful injection of low water/cement ratio mixes with high compressive strengths.

HOW IT WORKS

For best results, ultrafine grout must be mixed in a high shear colloidal mixer.

USG Super should be premixed with the measured amount of water prior to adding powdered grout.

NEVER mix **USG Super** with **Ultrafine SD**. The two materials are incompatible and will negatively affect the set time and strength of the cement.

PACKAGING

- 2.5 gallon (9.5 L) plastic container OR
- 20 kg (44 lbs.) dry bag

SHIPPING

- Motor Class 5
- Non-Hazardous

Dry USG Super Mix Ratio Guidelines

Water/Grout Ratio	Dry USG by %	Dry USG by Wt.	28-Day Strength (PSI)
0.6/1.0	0.5	100 g	6,000+
0.8/1.0	0.4	80 g	3,000+
1.0/1.0	0.3	60 g	2,000+

*Lab tests were performed on neat cement only. No aggregates added.

**Dry USG Super is twice as potent as Liquid

Liquid USG Super Mix Ratio Guidelines

Water/Grout Ratio	Liquid USG by %	Liquid USG by Wt.	28-Day Strength (PSI)
0.6/1.0	1.0	200 g	6,000+
0.8/1.0	0.75	150 g	3,000+
1.0/1.0	0.5	100 g	2,000+

*Lab tests were performed on neat cement only. No aggregates added.

DOSAGE RATE

The water grout/ratios in the table are for reference and indicate controlled lab results, with no additional aggregate. Actual field results may vary. Consult the project engineer.

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 liquid USG Super 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.

NOTICE

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