

USG Super™ VX Polycarboxylate

Superplasticizer for Ultrafine VX Cementitious Grout



Description

USG Super VX Polycarboxylate from US Grout is a polycarboxylate-based superplasticizer provided in either liquid or dry powder that helps disperse cement and break agglomerates, thereby improving the fluidity of Ultrafine VX cementitious grout. It can be used to improve the rheological and mechanical properties (i.e.: 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 (down to less than 0.22)
- Low cement content and low carbon footprint
- High performance

How USG VX Polycarboxylate Works

USG Super VX Polycarboxylate should only be used with Ultrafine VX. For the best results, Ultrafine VX grout must be mixed in a high shear colloidal mixer. USG Super VX Polycarboxylate should be premixed with the measured amount of water prior to adding powdered grout.

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

- Liquid Jug – 320 fl. oz.
- Dry Bag – 10 lbs. (4.54 kg)

Dry USG Super VX Polycarboxylate Mix Ratio Guidelines for Ultrafine VX

Water/Grout Ratio	by %	Gal. Water per Bag	Gram per bag (by wt.)	28-Day Strength (PSI)
0.8/1.0	0.7	4.23	75 g	2,800+

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

Liquid USG Super VX Polycarboxylate Mix Ratio Guidelines for Ultrafine VX

Water/Grout Ratio	by %	Gal. Water per Bag	Gram per bag (by wt.)	Fl. oz. per bag (by vol.)	28-Day Strength (PSI)
0.8/1.0	1.4	4.23	150 g	5.0 fl. oz.	2,800+

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

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 the unit on high speed.
4. Add pre-determined amount of USG Super VX Polycarboxylate-based superplasticizer to water.
5. Slowly add dry Ultrafine VX grout to mixer.
6. Mix at high speed for two to three minutes.

IMPORTANT: Only use USG Super VX Polycarboxylate with Ultrafine VX.

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

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

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.

Shipping – Motor or Air Freight available

- Motor class 55
- Non-hazardous

Notice

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