

Product Information



PREVent-C₅₀₀ Shrinkage-Reducing/Compensating Admixture

Description: Shrinkage-reducing/compensating admixture for cementitious mixes needing crack and curl control.

Typical Properties:

Appearance	Free-flowing powder, off-white to light brown	
Density	Loose bulk density (lb/ft ³)	43
	Tapped bulk density (lb/ft ³)	60
pH (10% aqueous slurry)	12	
Specific Gravity	2.6	

Product Application:

PREVent-C₅₀₀ is a specially-formulated powder concrete admixture designed to reduce shrinkage cracking as well as curing. The admixture is designed for use in the following applications:

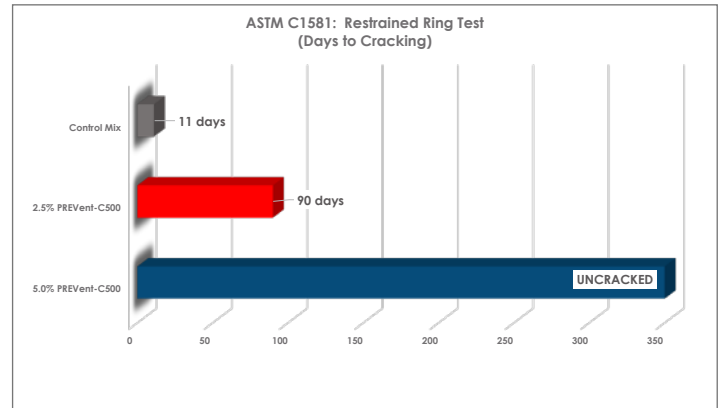
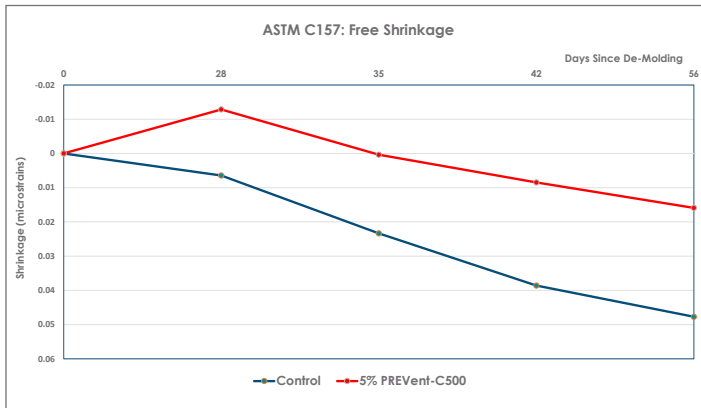
- All types of cement-based mixes, cast-in-place, precast, prestressed, mortars and grouts, as well as pre-packaged cement-based mixes.
- Both 100% Portland Cement mixes and in blended cement mixes.
- Watertight concrete structures such as WWTP, WTP, dams and reservoirs.
- Architectural and decorative concrete to improve aesthetics.
- Concrete floors to control shrinkage cracking/curling as well as to extend joint spacing.
- Concrete structures exposed to de-icing chemicals and chloride exposure, such as bridge decks (full-depth and partial overlays), parking structures, and marine structures.
- Any highly-restrained structure.
- Mass concrete.
- Thin sections and overlays.

Benefits:

- Significantly reduces shrinkage cracking caused by drying and autogenous shrinkage.
- Improves durability.
- Decreases curling and related cracks.
- More effective and economical than conventional SRAs.
- Allows for reduced usage of control joints.
- Reduces infiltration of water, salt and aggressive chemicals by reducing cracks.

Dosage Rates:

Typical PREVent-C₅₀₀ addition rates range from 2-7%, based on cement content, or 2-7 lbs for each 100 lbs of cement in concrete, mortar or grout. PREVent-C₅₀₀ when used at 5% addition rate has shown independent documented reduction in shrinkage cracking as high as 90-100%.



Usage: PREVent-C₅₀₀ should be added to the concrete either simultaneously with the other powder components or after all of the other ingredients are in the truck. If added at the end of the load, adequate mixing must be ensured.

When trial mix designs are performed for mix approval, ensure that sample materials used for the trial are representative of the actual production materials.

PREVent-C₅₀₀ is not designed to replace proper curing procedures. TO PREVENT DRYING SHRINKAGE, ENSURE THAT PROPER CURING IS PROVIDED WHEN PLACING CONCRETE.

Packaging: PREVent-C₅₀₀ is available in 50-lb lined bags and 1,000- and 2,000-lb lined bulk sacks.

Handling and Storage: Store in a dry, protected place. The product is stable under normal conditions of dry storage. Do not allow water to get inside containers. Exposed, unprotected material will absorb moisture and carbon dioxide from the air. Appropriate personal protective equipment should always be worn when handling material. See MSDS for more information.

PREVent-C is a registered trademark of Premier Magnesia, LLC.
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For orders or technical questions, contact Premier CPG Customer Service at 1-800-227-4287.