

S-1500 Concrete BOOST!™

TECHNICAL DATA SHEET

DESCRIPTION

S-1500 Concrete BOOST!™ (for Portland Cement Based Ready-Mixed Products) is a non-hazardous liquid additive formulated to create a chemical reaction within Portland cement-based products. The addition of S-1500 Concrete BOOST! enhances the concrete's natural hydration process by prolonging the hydration of cementitious materials and increasing workability. The addition of S-1500 Concrete BOOST! mixed with any Portland cement-based ready-mixed products such as, but not limited to, ready-mixed concrete, plaster, and pre-cast concrete, will densify the substrate, increase its structural strength, and encapsulate and expel excess alkali, lime and other contaminants from with substrate to allow for concrete coating on the eighth day after application. When concrete is treated, its capillary pores are reduced in both size and number and the concrete becomes dramatically less porous. The resulting concrete is less permeable to the migration of water or waterborne chemicals. S-1500 Concrete BOOST! can increase compressive strength up to 23% depending on the amount and quality of the Portland cement contained in the mix design. The addition of S-1500 Concrete BOOST! reduces the acceleration of Portland cement-based products and reduces curing cracks substantially. Concrete is overall improved when using S-1500 Concrete BOOST! and it can also be used as a water reducing agent in concrete mixes.

USES

Concrete Countertops	Curing Agent
Ready-Mix Concrete	Precast Concrete Architectural
Structural Concrete	Concrete Radon Reduction
Below Grade Concrete	Water Reduction
Any Portland Cement-Based Ready Mixed Product	Moisture Vapor Reduction

ADVANTAGES

Increases compressive strength of concrete up to 23%	Eliminates carbonation
Reduces moisture vapor and water transmission	Reduces substrate permeability
Protects reinforcing steel from rust	Resists mold and mildew
Reduces radon transmission	Resists freeze/thaw Damage
Prevents intrusion of water and chemicals	Contains zero VOC's
Prevents calcium chloride deterioration	Environmentally safe
Concrete can be coated on the 8th day after application	
Internal waterproofing	
Cures concrete before 28 days	
Purges excess alkali and free lime from concrete substrate	
Self-seals any hairline cracks that may occur from subsequent shrinkage	



CSI RELATED SECTIONS

03 01 30.71 - Strengthening of Cast-In-Place Concrete	03 01 40.72 - Strengthening of Pre-Cast Concrete	07 16 16 - Crystalline Waterproofing
04 05 00 - Common Work Results for Masonry	07 11 00 - Damp-proofing	07 19 00 - Water Repellents

GENERAL INFORMATION

S-1500 Concrete BOOST! is an additive for ready-mix concrete that will greatly enhance the overall performance of concrete. Adding one (2 oz.) bottle of S-1500 Concrete BOOST! to a sack of ready-mix concrete (up to 90lbs.) will increase overall strength, reduce permeability, resist shrinkage cracking, resist freeze/thaw damage, dusting, and spalling, providing increased flowability and improving workability to the concrete mix. S-1500 Concrete BOOST! is formulated to create a chemical reaction when mixed with water, alkali and free-lime within a Portland cement concrete matrix. The matrix becomes extremely dense by filling the capillaries with a crystalline structure. As the crystallization process takes place, all excess chemicals and water are purged to the surface providing the matrix with an immediate, water-resistant-structure internally. After application and before coating, neutralize the concrete surface with a solution of trisodium phosphate and water. S-1500 Concrete BOOST! is perfect for use in concrete countertop mixes.

Super-Krete® Products is a Division of Arizona Polymer Flooring, Inc.

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RECOMMENDED DOSAGE AND MIXING PROCEDURE

The recommended dosage of S-1500 Concrete BOOST! to all Portland cement based ready-mixes is 2 oz. (one unit) per each sack of ready-mixed concrete up to 90 lb. Instructions For Use: Mix concrete per instructions adding necessary water. Let sit for 5 minutes. Shake contents of S-1500 Concrete BOOST! well. Add S-1500 Concrete BOOST! and mix well for two minutes with a mechanical mixer. Pour concrete as desired.

For use in ready-mix concrete and cement-based materials only. Do not apply to glass or other surfaces. First Aid: If ingested, seek medical attention immediately. In case of eye contact, flush with water for 15 minutes. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, seek medical attention.

For best results and maximum workability, add additional water to the concrete matrix to create a flowable mix.

Note: Adding more than the recommended 2 oz. of S-1500 Concrete BOOST! per sack of ready-mix concrete will decrease set-up time and prolong working time.

Cure Time

Concrete BOOST! will typically gel and purge all excess chemicals to the surface within a 24-hour period. Although excess chemicals are forced to the surface within 24 hours, the substrate will not reach its full increased strength for 28 days.

Clean Up

Clean tools and equipment and flush sprayer with clean water immediately after use.

Tools Required

Graduated container or dosing equipment
5 Gallon Pail
½" Drill
Paddle Mixer

Shelf Life

2 years when properly stored.

Storage

Store in a cool, dry place. Keep from moisture and keep from freezing.

V.O.C. Content

<100 g / liter

Yield

2oz. (one unit) per 60 lb. or 90 lb. sack of Ready-Mixed Concrete

Appearance

Clear liquid

Odor

None

CAUTION

Protect from glass and metal surfaces. Cannot be removed.

Keep away from children. Do not take internally. Always use safety gloves, appropriate eye protection, and appropriate OSHA/NIOSH approved respirator in areas with poor ventilation and when exposed to spray mist both indoors and outdoors. If ingested, seek medical attention immediately.

LIMITATIONS:

Super-Krete Products are to be applied only when surface temperatures are above 55°F and rising and not to exceed 100°F. Super-Krete Products are not to be applied when precipitation is expected within 24 hours following completion of application. Do not allow materials to freeze. Each Super-Krete product acts as an inherent part of a proven system. Super-Krete Products are professional, contractor grade products. Training in the use of these products is available. Consult a Super-Krete Products representative for information and assistance locating approved contractors in your area or for training class dates.

MOISTURE VAPOR EMISSIONS PRECAUTIONS:

All concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride testing in compliance with ASTM F1869, or relative humidity probe testing in compliance with ASTM F2170, to determine if excessive levels of vapor emissions are present before applying any coatings. Arizona Polymer Flooring offers **S-1300 Pene-Krete®** for cementitious overlay products and **VaporSolve® Moisture Remediation** systems for resinous floor coatings. Consult our technical service department. Arizona Polymer Flooring and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

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WARRANTY:

Arizona Polymer Flooring guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. ARIZONA POLYMER FLOORING MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. Arizona Polymer Flooring shall not be liable for damages caused by application of its products over concrete with excessive moisture vapor transmission or alkalinity. Arizona Polymer Flooring shall not be liable for any injury incurred in a slip and fall accident. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product.

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