



ChemMasters®

CRETELOX™

High Solids Acrylic Latex Bonding Agent and Admixture

SPECIALTY CONSTRUCTION PRODUCTS

P R O D U C T D A T A

DESCRIPTION

Cretelox is a non re-emulsifiable, acrylic latex bonding agent and admixture. This high performance polymer is formulated as a bonding agent for cementitious mortars and toppings and as an admixture to site mixed or prepackaged cement based mortars including thin set cement mortars and mortar beds.

USES

- **Cretelox** is used in place of all or a portion of the mixing water to improve the physical properties of any cement mix. Performance enhancing admixture for stucco, cement plaster, cementitious toppings and overlays, prepackaged mortar or site mix mortars
- Cyclically damp environments, food processing plants, water storage facilities, swimming pools
- Polymer modified concrete (PMC) for bridge decks and white toppings

ADVANTAGES

- Forms permanent, positive chemical and mechanical bond to sound surfaces
- Improves the compressive, tensile, flexural and bond strength of any cement or mortar mix
- Increases abrasion and impact resistance
- Improves chemical resistance to fertilizer, acid and alkali
- Aids in controlling shrinkage cracking
- Reduces permeability for excellent freeze-thaw resistance
- Deepens and enhances colored mortars, resists fading and is non-yellowing under UV exposure
- Higher quality polymer has no strong ammonia odor
- Significantly reduces chloride ion penetration to protect reinforcing steel from corrosion

Packaging Product Number		
1 gal (3.8L)	4 per case	F3400.01
5 gal (18.9L)	36 per pallet	F3400.05
55 gal (208L)	4 per pallet	F3400.55

TECHNICAL DATA

- Meets ASTM C1059, Type II

Test Data Physical Properties of Portland Cement/Sand Mortar Mix		
Test Method	Water Only	1/2 Cretelox*
ASTM C109 Compressive Strength 28 Days psi	3,650	4,000
ASTM C190 Tensile Strength 28 Days psi	240	420
ASTM C348 Flexural Strength 28 Days psi	680	1,025
ASTM C1042 Shear Bond Strength 14 Days psi	1,500	2,850

* 1/2 of the water used in the mortar mix replaced with Cretelox

ESTIMATING GUIDE

- Usage of **Cretelox** depends on the application
- For use as a bonding agent 200-250 ft² per gallon (5 to 6 m² / liter)
- For producing scrub coats before patches and overlay replace 100% of the water with **Cretelox**
- As an admixture for prepackaged mixes or site mortars replace 25 to 100% of the water with **Cretelox**

DIRECTIONS

MIXING: Gently shake or stir **Cretelox** before using. If using **Cretelox** as an admixture, determine the amount of water normally required for the prepackaged mortar or site mix. **Calculate** the percent of **Cretelox** for water replacement to be used for the situation and blend the appropriate amount of **Cretelox** and water together first to achieve the proper total mixing liquid required. Always add dry cement or mortar mix to liquid to reduce lumps.

As an admixture for packaged or site mix mortars, use **Cretelox** to replace 25% to 100% of the normal water required. Cement based masonry coatings or other thin mortars and toppings may be mixed with **Cretelox** alone for optimum adhesion and durability.



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HORIZONTAL REPAIRS: Replace 50% of the normal water with **Cretelox**. Mix and place as usual. Do not over work or over trowel the concrete, this may result in surface blisters or peeling.

VERTICAL AND OVERHEAD REPAIRS: Replace 50%-75% of the normal water with **Cretelox**. Place as usual. Best results are obtained if repairs are made in 0.5 inch (1.25 cm) lifts. A stiff mix is easier to place.

CEMENT PLASTER CEILINGS: Use 100% **Cretelox** as the mixing liquid. Build up in thin coats of 0.25 inches (0.62 cm) but do not exceed 0.5 inches (1.25 cm) in depth.

MORTAR BEDS: Use **Cretelox** as 100% of the mixing liquid. Mix mortar to a semi-dry consistency and apply over a slurry bond coat (see above)

THIN SET MIXES: Use **Cretelox** as 100% of the mixing liquid. Mix mortar to a creamy consistency

TILE GROUT: Use **Cretelox** as 100% of the mixing liquid for industrial or exterior applications. For other applications, **Cretelox** should make up 50% of the mixing liquid. Mix in mortar to a smooth, but stiff consistency

BONDING AGENT APPLICATION: Apply **Cretelox** at a rate of 200 to 250 ft² per gallon (5 to 6 m² per liter) with a to garden type sprayer or solvent resistant roller. Place fresh concrete or mortar while **Cretelox** is wet.

BONDING SLURRY APPLICATION: (Preferred method) Use **Cretelox** as 100% of the mixing liquid. Slurry should have the consistency of pancake batter. Apply to substrate with a stiff bristle brush, working bond coat into voids, cracks and corners. Place repair mortar or topping while slurry is wet or damp.

CURING When **Cretelox** modified concrete is exposed to rapid drying conditions due to high temperatures, rapid air movement or wind, it is recommended that the surface be covered with wet burlap to retain moisture. For normal use, allow a 24 hour curing period. For heavy wheeled traffic, allow a 4 day curing period.

CLEAN UP Clean tools and equipment immediately with water. Cured material will require mechanical removal

STORAGE Store tightly sealed containers at room temperature. Keep from freezing. If **Cretelox** freezes, allow it to thaw normally at room temperature. Shelf life of properly stored material is one year from date of manufacture.

LIMITATIONS

- Do not use with air entraining agents or other admixtures.
- Do not apply when the surface or air temperature is, or is expected to go, below 40°F (4°C).
- Do not apply to frozen or frost filled surfaces
- Overworking or over trowelling surface may cause blisters or delaminating of the surface
- Do not seal surface with solvent based products. Organic solvents of high solvency power (xylene, toluene, lacquer thinner, etc.) will soften the surface if spills are not removed quickly
- Do not use as a bonding agent in exterior applications unless as part of a slurry application

Precautions:

Warning. May be harmful if swallowed. Causes eye irritation. May cause an allergic skin reaction. May cause respiratory irritation.

**All label precautions and Safety Data Sheet must be fully understood before using this product.
Keep out of the reach of children.**

This Product is Formulated and Labeled for Industrial and Commercial Use Only

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT PRODUCT & SAFETY DATA SHEETS AND PACKAGE LABEL FOR THIS PRODUCT. We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.