



# GasGuard 500

## **Product Description**

GasGuard 500 is a cementitious lining system used in corrosive concrete environments where corrosion protection and strength are needed. GasGuard 500 is composed of a blend of calcium aluminate aggregate, fibers and pure fused calcium aluminate cement.

The mortar can be hand or spray applied to a nominal thickness of ½" up to 2" in depth. Thicker applications can be achieved by applying in successive lifts.

The GasGuard system is the result of over 25 years of R&D with protective coatings in corrosive environments and was designed to be a far superior lining solution to conventional surface coatings.

## **Product Characteristics**

**Finish:** Concrete texture

**Color:** Gray

**Volume Solids:** 100%

**Dry mils:** 250 – 4000

## **Recommended Uses**

GasGuard 500 uses include repairing concrete walls and ceilings, lining brick or concrete manholes and lift stations and horizontal pipe repair. GasGuard 500 can also be used as a replacement for traditional concrete in patching, structural repairs, and form & pour applications.

- Wastewater Treatment Plants
- Sugar and Citrus Plants
- Lift stations
- Manholes
- Inverts/files
- Secondary containment areas
- Industrial and wastewater tanks
- Concrete repairs

## **Typical Properties**

Compressive Strength	9,000 psi	ASTM C109
Flexural Strength	1800 psi	ASTM C293
Splitting Tensile	800 psi	ASTM C496
Bond Strength	3,000 psi	ASTM C882
Shrinkage	.0300%	ASTM C596

Modulus of Elasticity 3,851,100psi ASTM C469-2  
Freeze/Thaw 300 Cycles- No Damage ASTM C666

### **Safety Information**

See SDS sheet before use.

### **Drying Schedule**

Damp curing or use of a curing compound, that complies with ASTM C-309, may be necessary to prevent rapid drying of mortar. Ambient and surface temperatures must be 38° F and rising during application. Protect from rain until initial set has been achieved. To avoid flash setting, Do Not contaminate with Hydraulic cement, or ordinary Portland cement.

### **Surface Preparation**

Abrasive blasting (wet or dry) is recommended for surface prep. Surface must be clean, dry and in sound condition before applying. Remove all oil, dust, grease, dirt and loose material to provide adequate adhesion.

Concrete & Masonry minimum surface preparation:

Atmospheric/Immersion: SSPC-SP13/NACE 6 (new concrete should be 28 days old or pH tested for full cure prior to application)

### **Application Guidelines**

**For GasGuard Certified Applicators only, see [www.GasGuardLinings.com](http://www.GasGuardLinings.com) for current list of applicators.**

Temperature: 38°F to 150°F  
Cleanup: Water  
Equipment: Casted, poured, troweled, sprayed

Minimum thickness: 1/4 inch  
Maximum thickness 4 inches in successive lifts

### **Warranty Information**

When installed by a Certified Applicator, GasGuard 500 is backed by a 5 – Year Material Warranty

**Florida Approved Applicator:**

**Restoration  
& Protective  
Solutions**