

# GARONITE™ HD



## Quick-Set, Non-Shrink Anchoring Grout



### DESCRIPTION

Garonite™ HD is a fast setting, high strength, non-shrink, and non-corrosive cementitious grout recommended for a wide

variety of interior and exterior construction applications. Garonite™ HD contains no metallic aggregates or oxidizing catalysts. It has an easy application, only water is needed for Grout-It to be used at dry pack, plastic, flowable, or fluid consistency. Garonite™ HD expands at a controlled rate in order to insure its high strength and resultant load-carrying ability. Typical applications include machinery bases, structural columns, bearing plates, pre-cast tee joints, pump and equipment bases, power line stanchions, anchoring bolts and railings and patching. Garonite™ HD meets Corps of Engineers Specification CRD-621 and ASTM C-1107.

### USES

- Structural Columns
- Machinery Bases
- Bearing Plates
- Anchoring Bolts, posts and railings
- Power line stanchions

### PRODUCT ADVANTAGES

- One step grout, just add water
- Contains no chlorides, heavy metals or gypsum
- High early strength requires no lengthy downtime
- Fast setting, 20 minute initial set
- Usable from flowable to trowelable consistency
- Dimensionally stable, requiring no treatment at edges or open end
- Excellent flexural strength and vibration resistance
- Freeze-thaw resistance superior to concrete
- Watertight, resists salt, many chemicals and oils
- Pumpable and flowable

### YIELD/COVERAGE

One 50-pound Pail of Garonite™ HD will yield 0.45 cubic feet.

### Typical Technical Data for Garonite™ HD

Storage Conditions	Store in dry conditions at 40°F-95°F. Condition product material to 63°F- 76°F before using.		
Shelf Life	One year in original, unopened packaging.		
Color	Light Gray		
Tensile Splitting Strength (ASTM C496)	500-600 psi @ 28 days		
Flexural Strength (ASTM C293)	1,000-1,400 psi @ 28 days		
Bond Strength (ASTM C882)	1,800-2,000 psi @ 28 days		
Expansion % @ 28 days (ASTM C1090/CRD C621)	Dry Pack +.06% Plastic +.06% Flowable +.055% Fluid +.03%		
Set Time (ASTM C266)	Dry Pack	25 minutes Initial	60 minutes Final
	Plastic	35 minutes Initial	70 minutes Final
	Flowable	38 minutes Initial	80 minutes Final
	Fluid	45 minutes Initial	105 minutes Final

### Compressive Strength ASTM C109

50 lb. Pail	Water	1 Day	7 Days	28 Days
Dry Pack	2 ¾ Quarts	4,000 psi	6,000 psi	10,000 psi
Plastic	3 ¼ Quarts	3,400 psi	5,000 psi	9,000 psi
Flowable	3 ½ Quarts	2,800 psi	4,000 psi	8,000 psi
Fluid	4 1/3 Quarts	2,600 psi	3,500 psi	6,000 psi

### PACKAGING

5-gallon pail

### SURFACE PREPARATION

All surfaces and contact surfaces must be structurally sound, clean and free of dust, dirt, oils, paints and all other contaminants that will prevent proper bond. Make certain all loose material is removed. Any metal that Garonite™ HD will come in contact with must be de-rusted and free of all oil and grease. Maintain contact areas between 50°F and 80°F for proper performance.

CAUTION: Acid based cleaning solutions must be neutralized. Grout-It is not recommended for featheredge patches. Area to be patched must be cut at right angles with the surrounding area.

Thoroughly wet the area to be patched, then remove excess water from voids and holes. Construct forms where needed and caulk to prevent leakage.

### MIXING

A mortar mixer is recommended. Pre-wet the mixer and empty excess water. A dry pack consistency requires 2 ¾ quarts of water per 50 pounds of Garonite™ HD. A plastic consistency requires 3 ¼ quarts of water per 50 pounds of Garonite™ HD. A flowable consistency requires 3 ½ quarts of water per 50 pounds of Garonite™ HD. A fluid consistency requires 4 ⅓ quarts of water per 50 pounds of Garonite™ HD. Add water to mixer and then add Garonite™ HD

while the mixer is running. Mix approximately three minutes, until smooth and lump-free. Use a mixer large enough to permit continuous placement before any part of the grout has set.

#### **APPLICATION & PLACEMENT**

Garonite™ HD should be placed in accordance with standard grouting procedures and recommendations of ACI (American Concrete Institute). Place Garonite™ HD quickly and continuously for best results. It may be pumped, poured, or troweled. Use chains, rods or tamping tools to tightly compact grout, completely removing all air voids, and being careful to completely fill all the space being grouted. Strike off exposed areas and after setting, cut back or finish Garonite™ HD to a final configuration. When anchoring bolts, posts or rails, crown Garonite™ HD slightly with a trowel or putty knife as it stiffens to aid water runoff.

#### **CURING**

Damp-curing is recommended. Allow to cure for 24 hours before applying weight or stress.

#### **LIMITATIONS**

Do not apply to frozen surfaces or if temperature will fall below 40°F within 24 hours.

As with all cement based materials, avoid direct contact with aluminum posts, rails, bars etc. to prevent adverse chemical reaction and possible product failure. Consult the International Building Code requirements for aluminum railing. The International Building Code suggests applying a bituminous coating to aluminum posts, rails, bars, etc. prior to contact with Portland cement.

The user is responsible for proper application.

#### **CAUTION**

Contains portland cement CAS #65997-15-1. Freshly mixed cement products may cause skin injury. Avoid contact with skin where possible and wash exposed areas promptly

with water. If any product gets in the eye, rinse immediately and repeatedly with water. If ingested, do not induce vomiting; get prompt medical attention. Also contains sand CAS #14808-60-7. Avoid breathing dust. Prolonged exposure to dust may cause delayed lung injury (silicosis) or cancer ARC Class 2A. Wear NIOSH approved mask for silica dust.

**Keep container tightly closed. Not for internal consumption--consult SDS for additional information. This product is for professional use only.**

**KEEP OUT OF REACH OF CHILDREN**

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