

# TIGERPRO™ HD



## Single-Component, Polymer-Modified, Non-Sag Mortar



### DESCRIPTION

TIGERPRO™ HD is a single component, portland cement based, polymer modified material designed to repair and rehabilitate

vertical and overhead concrete and masonry surfaces without the need for costly formwork. The fast setting, low shrinkage and high strength of TIGERPRO™ HD allow it to be placed and sculpted to final shape in a single application up to 2" in thickness.

### USES

- Vertical, overhead & horizontal repairs of concrete and masonry—buildings, facades, and balconies
- Fast repair of bridges, pilings and buildings
- Fill cracks and voids in curbs, steps and floors.
- Rebuild cornices and ornate precast without forming
- Moderate service environment—general-purpose repairs

### PRODUCT ADVANTAGES

- High polymer modification provides tenacious bond
- Fast setting, 6-20 minute initial set
- Apply from featheredge up to 2" in single application
- Make repairs without costly forming
- Self-curing & non-shrink
- Free of chlorides, gypsum and heavy metals
- Freeze-thaw resistant
- Sulfate resistant
- Single component
- Glass fiber reinforced for added strength

### YIELD/COVERAGE

- 1 pound of TIGERPRO™ HD will yield approximately 17 cubic inches.
- One 50 lb. unit will yield approximately 1/2 cubic foot.

### PACKAGING

- 50 lb. multi-wall paper bag with moisture barrier.
- 50 lb. pail / re-closable lid

### SUBSTRATE

Concrete, mortar, and masonry products.

### TYPICAL TECHNICAL DATA FOR TIGERPRO™ HD (Product and curing conditions at 73°F and 50% R.H.)

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.	
Gardner Impact	> 158 inch lbs.	
Appearance	Fine, gray powder	
pH (Wet Mix)	12	
Air Content (Wet Mix)	5.3%	
Water Penetration	1/2 inch (3 day soak)	
Compressive Strength (ASTM C 109)	2,675 psi	24 hours
	6,810 psi	7 days
	7,025 psi	28 days
Tensile Strength (ASTM C 496)	270 psi	24 hours
	465 psi	7 days
	520 psi	28 days
Flexural Strength (ASTM C 293)	575 psi	24 hours
	835 psi	7 days
	915 psi	28 days

### SURFACE PREPARATION

All dirt, oil, dust, foreign contaminants, peeling coating and laitance must be removed from surface prior to coating to assure a trouble free bond. Previously coated floors exhibiting a strong bond to surface can be coated over by sanding down the existing coating.

Refer to Garon's Master Surface Preparation & Moisture Guideline for complete details.

### MIXING

Mix 4 parts TIGERPRO™ HD to 1 part clean potable water (10 pounds material to 1 quart of water, 45 lbs. to 4.5 quarts). Keep mix to a heavy, putty-like consistency. Mix only until completely blended and free of lumps. If using a drill mixer to blend material use a slow speed high torque drill at no more than 500-650 RPM. Add material to water in bucket or mortar mixer but add water to

material if hand mixing smaller batches. Clean sharp sand or stone up to 3/8" may be added at a ratio of 1 part aggregate to 2 parts TIGERPRO™ HD by weight. Do not mix more material than can be placed in 10 minutes. Do not retemper after initial mixing. **For an ultra-modified, putty-like mortar consistency, replace 10-20% of your mix water (by volume) with THINSET™ bonding liquid.**

### APPLICATION & PLACEMENT

Trowel on immediately. Vertical or overhead patches greater than 2" in depth may need to be built up in successive layers. If layering deep patches, scratch surface of each layer. Allow previous layer to tighten (5-10 minutes) before building another layer. Dampen first layer before applying second. Overfill patch and shave to shape.

TIGERPRO™ HD can be shaved with a trowel for up to 1 to 2 hours after initial set. Try to avoid overworking a patch. Finish with a damp sponge, brush or steel trowel.

## **CURING**

ACI recommendations for portland cement concrete require curing. During the first 24 hours, it is best to keep the patch covered or damp to prevent excessive loss of water. Portland cement based finishes may be applied after only 30 minutes. For latex based paints wait at least 4 days, and for oil based paints material should be allowed to cure for at least 14 days. Protect new applications from exposure to direct sunlight, wind, rain, and frost.

## **LIMITATIONS**

- Product is temperature sensitive regarding set time; below 60°F set is slower, above 80°F set is faster.
- In hot weather, cool surface to be patched with cold water and use cold water for mixing.

- Do not apply TIGERPRO™ HD when dry product or surface temperature is below 40°F. Dry product and surface can be warmed with a torch.
- Do not use "anti-freeze" or set accelerator solutions.
- Do not add any concrete additives.
- Protect from precipitation for at least 4 hours.
- Minimum placement thickness: 1/2" neat, 1" extended. Maximum thickness: 2" neat.
- Adding coarse aggregates may alter the physical properties of this product.
- Do not use solvent-based curing compounds. Pre-testing of any curing compound is recommended.
- 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. Also contains sand CAS # 14808-

60-7. Avoid breathing dust. Prolonged exposure to dust may cause delayed lung injury (silicosis) or cancer IARC Class 2A. Wear NIOSH approved mask for silica dust.

## **FIRST AID**

Skin contact- wash thoroughly with soap & water. If any product gets into the eye, rinse immediately and repeatedly with water. If ingested, do not induce vomiting and get prompt medical attention.

## **CLEAN UP**

Unmixed components—vacuum or scoop into appropriate container and dispose of according to local, state, federal regulations. Mixed components—uncured material can be removed with water. Cured material must be removed by mechanical means.

**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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