TUFF-PRODUCTS

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TUF-BOND: PRODUCT DESCRIPTION

TUF-BOND may be used as a **"paint-on" type bonding agent** or as an **admix** to impart flexibility and bond strength for interior or low moisture areas.

- gypsum plaster
- stucco finishes
- dry joint cement mix
- cement topping mix
- thin bed terrazzo
- thin bed tile mortars
- fibered cementitious products
- gunite, shotcrete, etc.
- acoustical coatings
- spray texture
- cement paints
- mixes containing expanded ingredients such as perlite or vermiculate
- mixes containing light-weight aggregate

When applied to uncoated surfaces, such as:

- untreated gypsum or plasterboard
- drywall
- concrete walls
- slabs
- block
- brick
- stone
- cinder block

TUF-BOND used as an **admix** provides:

- increased weather resistance
- improved abrasion resistance
- increased tensile strength
- elimination of efflorescence and dusting (the primary cause of paint failure)
- increased chemical resistance
- increased flexural strength
- improved color fade resistance
- permanent bond to structural surfaces

DIRECTIONS FOR USE AS AN ADMIX:

• Add two quarts of TUF-BOND for each bag of cement during FINAL TWO MINUTES OF MIX.
• To mixes containing perlite, vermiculite, light-weight aggregates and/or fibers, INCREASE the amount of TUF-BOND to ONE GALLON and INCREASE MIXING TIME to allow complete wetting of mix.

DIRECTIONS FOR USE AS A BONDING AGENT:

• **NEW WORK:** Apply by brush, roller, lamb's wool applicator or Hudson-type garden sprayer as if applying paint. NOTE: On extremely porous surfaces, apply TWO COATS of TUF-BOND, thinning the first coat with an equal amount of clean water.

One gallon of TUF-BOND will provide 250 to 400 sq. ft. of coverage when used as a bonding agent.

• **OLD WORK:** Same as above: all surfaces to be prepared and cleaned as for painting.

"Waterborne Chemistry"

WATER RESISTANT CONCRETE BONDING ADHESIVE AND ADMIXTURE

TEST PATCHES RECOMMENDED!

TUF-BOND: PRODUCT DESCRIPTION

PREPARATION:

- All surfaces must be structurally sound and not subject to temperatures below 45°F or above 95°F.
- Surfaces must be free of all grease, oil, dirt, dust, mildew, curing compounds, sealers, coatings, form release, efflorescence, old adhesive residues, gypsum-based underlayments, and any other foreign matter.
- Slick or sealed surfaces must be thoroughly roughened.
- New concrete must be allowed to cure.
- If surface is questionable, apply test patch of TUF-BOND; allow it to dry thoroughly and check to besure there is absolutely no curling or peeling.
- Before application, area should be damp, with excess water removed.

TABLE 1: PERFORMANCE PROPERTIES: TUF-BOND

PROPERTY	TEST METHOD	RESULT
TENSILE BOND STRENGTH	**ASTM C-190** Pulling apart neat Portland briquet halves bonded together.	490 psi Avg. 28 days in all cases; failure occurred in the cementitious material—not within the bond.
FLEXURAL BOND STRENGTH	**ASTM C-78** Concrete beams laminated with bonding agent.	720 psi Avg.
SHEAR BOND STRENGTH	**ASTM C-39** Slant shear cylinder test.	540 psi Avg. 28 days.

NOTE: TUF-BOND (TINTED) meets ASTM Standards for C631 Interior Bonding compounds. For C932 Exterior Above and Below Grade Bonding Compounds see TUF-LINK.