



TUFF-PRODUCTS, LLC

4514 Hudson Ln. • Tampa, FL 33618

office 813-960-1122 • toll free 800-780-3262 • fax 813-960-2244

TUF-LINK - Bonding Adhesive / Admixture

PRODUCT: TUF-LINK - Water resistant concrete bonding adhesive and admixture.

PRODUCT DESCRIPTION:

Basic Use: Product is intended for exterior and interior, above and below grade use as non re-emulsifiable coat-on and admixture bonding agent and primer over:

Concrete * Block * Clay Products * Concrete Masonry * Surface Bonding Cement * Dash Coats * Scratch & Brown Coat * Stucco * Finish Coat * Shotcrete * Gunite * Decks.

As an admixture with:

Stucco * Plaster * Cement Based Coatings * Mortars * Tile Grouts * Concrete * Cement Based Repair Products * Pool Plaster.

As a primer and coat-on bonding adhesive for:

Stucco * Plaster * Cement Based Coatings * Mortars * Tile Grouts * Concrete * Cement Based Repair Products * Self-Leveling Products * Pool Plaster and Decks.

UNIQUE FEATURES:

- Exterior or Interior
- Above and Below Grade
- Horizontal, Vertical & Overhead Applications
- Bonds new Concrete to old Concrete
- Increases Bond Strength
- Act as a Plasticizer- Improves Flexibility as Admix
- Improves Workability, Hydration & Curing
- Resistant to Mottling & Discoloration
- Resistant to Destructive: Attack of Pool Chemicals, Acids, Body Oils, Alkalis
- Does Not Interfere with Future Coating or Replastering
- V.O.C. Compliant

TECHNICAL DATA:

Tensile Strength ASTM C 932

For exterior above and below grade bonding admixtures:

7 Day	465 psi
28 Day	620 psi

COLOR: White (tinted by special order)

LIMITATIONS:

- DO NOT apply when air or substrates temperatures are above 90°F or below 45°F.
- DO NOT allow puddles to accumulate.
- DO NOT use high speed mixing equipment.
- DO NOT rewet or allow to freeze prior to application of new material.
- DO NOT allow exposure to high winds and low humidity.
- DO NOT use more water than recommended.
- DO NOT apply over substrates that are frozen or contain frost.
- DO NOT allow to freeze.
- DO NOT store below 40°F or above 90°F.
- DO NOT apply over substrates with curing compounds, coatings, efflorescence, or form release oils.
- DO NOT reuse empty containers. Dispose of properly.

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WATER RESISTANT CONCRETE BONDING ADHESIVE AND ADMIXTURE

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 should be allowed to cure. If surface is questionable, apply test patch of TUF-LINK; allow it to dry thoroughly and check to be sure there is absolutely no curling or peeling. Before application, area should be damp with excess water removed.

MIXING: Stir completely.

AS A PRIMER/SEAL COAT:

TUF-LINK may be diluted 1:1 with water on properly prepared substrates.

AS AN ADMIXTURE:

When TUF-LINK is used as an admixture to cement based mixes, TUF-LINK creates a concrete curing characteristic that is essential to the complete hydration of stucco, and other thin coat applications of portland cement mixes or plasters.

TUF-LINK greatly reduces the rate of water evaporation. The polymers in TUF-LINK are efficient in their abilities to attract and hold moisture for a complete internal cure without the need for water misting the surface or other external curing methods. In environments of high heat and wind, where rapid drying conditions exist, it is recommended that the plaster overlay be protected with an undiluted film of TUF-LINK.

TUF-LINK suggested minimum dilution ratio to water is as follows:

Stucco Mixes - Rough Substrate	1:5
Stucco Mixes - Smooth Substrate	1:4
Plaster	1:3
Scratch & Brown Coats	1:3
Cement Paints	1:3
Concrete Repair Materials	1:3
Surface Bonding Cements	1:3
Sand Mixes	1:2
Mortar Mixes	1:2
Concrete Mixes	1:1
Slurry Coats (Dash Coats)	2:1

To convert to ratios in 55 gal. drums:

This is rounded off to even gallons with the exception of 1:1 and are approximations.

1:1	27.5 gal Tuf-Link	to 27.5 gal water
1:2	19 gal Tuf-Link	to 36 gal water
1:3	14 gal Tuf-Link	to 41 gal water
1:4	11 gal Tuf-Link	to 44 gal water
1:5	9 gal Tuf-Link	to 46 gal water

You would then use this solution in place of plain water in the amounts recommended by the cement manufacturer.

This also will vary according to sand conditions, etc.

Test areas are recommended to see if more or less concentrated dilutions are required. For more detailed usage of TUF-LINK in pool mixes, consult specific TUF-LINK literature for Pools & Decks.

AS A COAT-ON BOND:

TUF-LINK should be used undiluted to meet ASTM C 932 - Type: II performance requirements and as follows:

PLACEMENT:

Temperatures of substrate, air, and mix should range between 45°F - 95°F. Pre-dampen substrate. Remove excess or standing water.

- Apply with roller, brush, broom, or garden sprayer.
- Apply a uniform coating 6-8 wet mils thick depending on porosity and texture of substrate.
- Protect from moisture until cement based coatings are applied.

CURING:

Allow a clear, tacky film before application of topping. Non-porous substrates, cooler temperatures, and/or high humidity extends tack time. Protect from water, rain, condensation and freezing until new material is applied.

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COVERAGE:

250 sq. ft. per gallon at 6-8 wet mils depending upon porosity and texture of substrate.

AS A SLURRY OR DASH COAT BOND:

A cement bond dash coat (slurry) should be considered for the following conditions:

Under placement of cement coatings of 1/2" thickness and above, or over very smooth substrates, such as paintable block on poured concrete.

Wet and dry mixes should be prepared separately.

Wet mix: combine 2 parts TUF-LINK and one part water to replace mixing water.

Dry mix: combine 94lbs of Portland cement with 100lbs of clean dry sand.

Combine thoroughly wet mix to dry mix, creating a slurry or cementitious paint.

Paint on slurry at 1/8" thick or apply as a splatter or dash coat.

While slurry/dash coat is still soft, proceed with first stucco coat.

PACKING:

1 quart plastic container (.946 L)- 6/case
1 gallon plastic container (3.78 L)- 6/case
5 gallon pail (18.9 L)
55 gallon drum (208 L)

SHELF LIFE:

One year from date code of manufacture.

CAUTION: Do not take internally. Dispose of empty containers properly. KEEP OUT OF REACH OF CHILDREN.

HOME OFFICE

TUFF-PRODUCTS, LLC.

4514 Hudson Ln., Tampa, FL 33618

Office: (813) 960-1122
Toll Free: (800) 780-3262
Fax: (813) 960-2244

LIMITED WARRANTY:

Tuff-products, Llc. ("Tuff-products") warrants that this product and materials used therein meet or exceed the applicable standards listed and enforced at the time of manufacture. Tuff-products will replace any product or part which proves defective due to quality of ingredients used or due to the manufacturing process itself. This Warranty shall apply only if the product is used in strict accordance with applicable specifications and instructions provided by Tuff-products for its use, and Tuff-products shall not be liable otherwise. Replacement of any defective product or, at Tuff-products option, refund of the purchase of any defective product shall be the buyer's sole remedy under this Warranty, and Tuff-products shall in no event be liable for any damages in excess of the purchase price of the defective product. TUFF-PRODUCTS SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES.

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