

Strong Bond

Description

A ready to use, acrylic admixture and bonding agent designed to improve the adhesion and durability of concrete, masonry, stucco, terrazzo and portland cement-sand mixes to horizontal and vertical concrete and other surfaces.

Manufacturer

Conspec
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Customer Service (800) 348-7351
Technical Service (877) CONSPEC

Use

Strong Bond is a ready to use high solids, acrylic latex emulsion that is non-re-emulsifiable, non-oxidizing and ultraviolet stable. White in color, but dries clear. Strong Bond is a one-part film-forming adhesive that becomes an integral part of the interface between the cementitious material and the surface to be bonded.

Benefits

- Ideal for interior or exterior bonding, topping, leveling, patching and dressing concrete and masonry
- Flexural strength, bond strength and impact resistance of mortars and concrete are more than doubled by Strong Bond.
- Concrete and mortar fortified with Strong Bond exhibit excellent resistance to cycles of freezing and thawing, and to penetration of chloride ions
- Use as an additive for Portland Cement in filling and repairing cement cracks and joints
- Minimizes cracks in concrete, stucco and plaster when used as an admixture
- Eliminates the need for separate air entraining agents
- V.O.C. compliant

Technical Data

To simplify the table below, typical or average values are given. These values are not necessarily production specifications.

Applicable Standards

Complies with MIL-B-19235A (Docks) Bonding compound, concrete. Complies with all V.O.C. standards.

GSA Specifications for bond adhesive.
Corps of Engineering CE 204.01

ASTM C-1059, Type II for latex bonding agents.

Architectural Specifications

Acrylic Latex Emulsion Admixture and Bonding Agent: Material shall be a non-re-emulsifiable film forming adhesive.
Approved Product: Strong Bond or an approved equal.

Application

Coverage: 200-300 sq. ft. per gallon(4.9-7.4 m²/L) depending upon the surface.

Surface Preparation: Remove all dirt, oil, wax, cures and sealers, loose paint, mildew, rust and other foreign material. Flush surfaces with water. Surfaces must be sound and firmly bonded. Roughened surfaces offer the best bond.

Bonding Agent: Apply directly from the container over damp or dry surfaces with brush, roller or sprayer, forming a thin, continuous film. **Immediately** apply cementitious materials that will interlock with the structure. **DO NOT** allow Strong Bond to dry prior to cementitious product's

TEST DATA		
Test Description	ASTM Test Method	Typical Test Results
Compressive Strength	ASTM C-109	5000 psi (34.5 MPa)
Flexural Strength	ASTM C-78	1200 psi avg. (8.3 MPa)
Tensile Strength	ASTM C-190	640 psi avg. (4.4 MPa)
Sheer Bond Strength	ASTM C-1042 ASTM C-1059	2000 psi avg. (13.8 MPa)

• Results achieved using a modified 1 to 2 (cement to sand) ratio mixed with Strong Bond to consistency.

application. Once Strong Bond and cement dry, the bond is unaffected by humidity or condensation.

Bonding Admixture: Premix sand and cement. Mix water and Strong Bond together at a ratio of 1:1. The blend is added to the mortar mix and blended no more than two to four minutes until proper consistency is reached.

Concrete overlays: Any concrete topping over the film must be applied immediately after Strong Bond has been applied as a bonding agent and should be abuted to an adjacent edge. Follow PCA standards in preparing, applying and curing the concrete topping.

Terrazzo topping: Use for 1/2" (1.27 cm) cement terrazzo topping, anchor T strips to slab before applying Strong Bond to control cracking.

Cement cracks and joints: Mix Strong Bond 50-50 with water. Add cement until a putty consistency is reached. Smooth off with a wet trowel and allow to set overnight. If crack is deep, fill until flush with surface.

Portland cement plaster bedcoats: Use where two coat work is required, e.g.: uneven concrete, block and brick. Bond first coat with Strong Bond (min. 3/8" (1 cm) thick).

Bedcoats, mortar setting beds: Use to bond the bedcoat for stone finishes, such as marblecrete and mortar setting beds for ceramic tile, precast, terrazzo, etc.

Packaging

55 gallon drums (208.2 L)

5 gallon pails (18.9 L)

1 gallon jugs (4 to a case)(3.8 L)

Limitations/Precautions

Do not allow to freeze. Do not apply over frozen surfaces, water soluble paints, rust or peeling paints. Prolonged water curing of Strong Bond mortars or concrete is neither necessary or desirable. Do not apply where excessive hydrostatic pressure is present.

Strong Bond is not recommended as a waterproofing agent. Until topping is placed, protect Strong Bond film from dirt and other job site contaminants.

Avoid hazards by following all precautions found in the Material Safety Data Sheets (MSDS), product labels and technical literature. Please read this information prior to using the product.

Warranty

Conspec warrants, for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Conspec, the product is free of manufacturing defects and conforms to Conspec's published specifications in force on the date of acceptance by Conspec of the order. Conspec shall only be liable under this warranty if the material has been applied, used, and stored in accordance with Conspec's instructions in this technical data sheet. The purchaser must examine the product when received and promptly notify Conspec in writing of any non-conformity before the product is used, or no later than 30 days after such non-conformity is first discovered. If Conspec, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Conspec officer is authorized to modify this warranty. The sales information on the Conspec website and received by the customer during the sales process does not supersede this warranty and the specifications of the product in force on the date of sale. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF

MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

Limitation of Liability

Conspec shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, this Agreement, even if Conspec could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this agreement, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.

Storage

Strong Bond should be stored in tightly sealed original factory containers. Store in a horizontal position to prevent moisture accumulation on the drum head.

Technical Services

Complete technical and specification services are available from the manufacturer and their authorized representatives and distributors.

Filing System

Additional literature and the Material Safety Data Sheet can be obtained from Conspec upon request.