

Technical Data Sheet

1. PRODUCT NAME

BULL-BOND® MULTI-PURPOSE™

Vinyl and Ceramic Tile Paste Adhesive

2. DISTRIBUTOR

CONSPRO CORPORATION
P O Box 361628
SAN JUAN, PR 00936-1628

PHYSICAL ADDRESS:

State Road PR-175 Km 0.02
35 North St. Rio Cañas Industrial Park
CAGUAS, PR 00725

TELEPHONE: (787) 653-4900

FAX: (787) 653-4949

Web Page: www.bull-bond.com

www.conspro.com

E-MAIL: info@conspro.com

3. PRODUCT DESCRIPTION

Bull-Bond® Multi-Purpose™ is a ready to use vinyl and ceramic tile paste adhesive, for INTERIOR installations of ceramic tiles, vinyl tiles, mosaics and semi-vitreous tiles on walls and floors. Suitable substrates for installing tiles with Bull-Bond® **MULTI-PURPOSE™** include:

- Concrete* (* = cured for at least 28 days).
- Cement mortar beds.
- Gypsum wallboard.
- Exterior grade plywood.
- Cement plaster.
- Masonry brick or CMU (cement blocks).

BB MULTI-PURPOSE™ tile adhesive is manufactured with high performance polymers under stringent quality controls to exceed **ANSI Standard for Organic TILE ADHESIVES A-136.1 Type I.**

Bull-Bond® MULTI-PURPOSE™ can also be used to install INTERIOR vinyl flooring tiles, rubber tiles, indoor carpeting tiles, parquet floors and decorative wood pieces. However, a PRE-INSTALLATION adhesion test is recommended to assure that **BB MULTIPURPOSE™** will properly bond to the vinyl, rubber, carpet and wood tiles purchased prior to starting the complete tile setting job. **REASON:** The huge variety and types of raw materials, formulations and tile surface treatments employed by vinyl and ceramic tile manufacturers, both domestic and foreign, requires testing the adhesive tile bond compatibility prior to starting-up each tile installation job.



3.1 PRODUCT PACKAGING

BB MULTI-PURPOSE™ is available in the following sizes:

1 Quart Plastic Containers	12 cans/ box.
1 Gallon Plastic Cans	4 gallons / box.
2 Gallons Plastic Pails	40 pails per pallet.
5 Gallons Plastic Pails	36 per pallet.

3.2 STORAGE AND SHELF LIFE

Keep **MULTI-PURPOSE™** adhesive containers tightly closed to maintain product in good conditions. Protect containers from freezing, extreme heat and direct sunlight. In cold climates store pails in warm area (21°C) for 1 day prior to use.

Bull-Bond® MULTI-PURPOSE™ shelf life is approximately 6-9 months when stored in original, unopened containers at room temperature in a dry area.

3.3 COVERAGE & YIELD ESTIMATES

MULTI-PURPOSE™ COVERAGE

TROWEL SIZE	ESTIMATED YIELD
1/8" V-notched	50-70 SQ. FT /gallon.
3/16" V-notched	30-50 SQ. FT /gallon.
1/4" x 1/4" Square	20-30 SQ. FT /gallon.

Coverage rates shown are approximate and are presented for estimating materials usage only. Actual jobsite coverage will vary depending on substrate conditions and roughness, work practices and type of trowel used.

3.4 PRODUCT LIMITATIONS

3.4.1 DO NOT use adhesive outdoors, in areas subjected to water immersion, constant humidity and/or hydrostatic pressures.

3.4.2 DO NOT apply on chipboard, particleboard, presswood, Masonite, metals, or other dimensionally unstable substrates.

3.4.3 Maximum wall tile size is 12" X 12".

3.4.4 Maximum porcelain tile size 2" x 2".

3.4.5 Maximum floor tile size is 12" X 12".

3.4.6 DO NOT use to install LUG BACK tile on floors.

3.4.7 DO NOT use to install bathroom fixtures.

3.4.8 DO NOT use to install natural marble and stones without prior testing. Conduct adhesion testing and check for discoloration to insure product compatibility with stones.

3.4.9 DO NOT use MULTI-PURPOSE™ if ambient temperature is below 55°F (12 °C).

3.4.10 DO NOT apply Bull-Bond® MP™ over any adhesive residues present in walls or floors. It is mandatory to COMPLETELY remove ANY tile adhesive residuals. Adhesive WILL NOT work unless ALL tile adhesive residues and DUST are first removed to expose the clean bare substrate.

3.5 PRECAUTIONS

3.5.1 Adhesive will not work if installed below 55°F (12°C) or if used in EXTERIOR AREAS.

3.5.2 Tile adhesives and grouts can not replace or function as waterproofing systems on ceramic tile, stone, and pavers installations. Always use a waterproofing membrane on all exterior tiles and stone installations under occupied space.

We recommend DUROSEAL™ Liquid proof membrane for waterproofing tile installations on gypsum wallboard, plywood and concrete or mortar substrates. Place tile adhesive directly over the dried membrane. Adhesion properties will not decrease.

3.5.3 FOR EXTERIOR TILE INSTALLATIONS USE ONLY cement based tile set adhesives modified with TILEKRETE™ latex tile admixture on all exterior tile projects .

3.5.4 Protect flooring tile jobs from traffic for at least 24 hours. Low temperatures (>10°C) will require protection for at least 48 hours. Use plywood boards to protect installation and to allow occasional stepping on floor.

3.5.5 Protect tile installation from water exposure for 5 days full adhesive cure.

3.6 Moisture Vapor Transmission

Bull-Bond® MULTI-PURPOSE™ adhesive is adversely affected by moisture migration through concrete slabs. This moisture or water vapor absorbs the alkalis present in the concrete. When the alkaline water contacts the adhesive it starts to emulsify and deteriorate it. This reaction produces alkaline bubbles and blisters in the adhesive and tiles resulting in warping, cracking and debonding of the floor tile covering.

For floor tile installations all concrete surfaces should be fully cured at least 28 days. In addition, the moisture content of the concrete slab should not exceed 6 pounds per 1,000 square feet per 24 hours when tested by the quantitative calcium chloride test method ASTM E1907.

Another alternative is to conduct the plastic film moisture test or ASTM D 4263. Securely tape a 4' X 4' sheet of clear polyethylene plastic to the concrete

surface and leave it in place for 24 hours. Use of gray duct tape is suggested and the plastic should be carefully sealed to prevent the leakage of any moisture trapped under the film. If condensation appears on the back-side of the film or the concrete color is darker, wet or damp the concrete has moisture and should not be tiled with the **BB** MULTI PURPOSE™ adhesive until it dries.

4. TECHNICAL DATA:

CERAMASTIC™ ready to use, paste tile adhesive complies and exceeds the **ANSI STANDARD FOR ORGANIC TILE ADHESIVES:**

ANSI A136.1 TYPE I.

4.1 MULTI-PURPOSE™ TECH DATA

4.1.1 PERFORMANCE PROPERTIES

Adhesive Color:	Off-White to light Gray .
Stain Testing:	Non Staining .
Open Time:	75 to 50 minutes .
Curing Time:	48 to 72 hours .
Flammability:	Non Flammable.
Shear Strength Dry:	75 psi. .
Shear Strength Wet	45 psi .
Impact Resistance Test	Passes .
Sag Resistance 12" X 12" Tile	No slip .
Cleanability	Water cleanable.
Mildew Mold Resistance	No growth.

4.1.2 Physical Properties

Solids	55 ± 5 % _w
Weight per Gallon	11.0 ± 0.5 lb/gal.
Viscosity	Paste. Non-sag.
pH	9.5 ± 0.5 .

5. INSTALLATION GUIDE

5.1 Bull-Bond® MULTI-PURPOSE™ must be applied to structurally sound INTERIOR porous substrates, plumb and true to within ¼" every 10 feet; such as: concrete (Cured for at least 28 days), cement mortar beds, cement plaster, gypsum, wallboard, exterior grade plywood, plycem®, etc. **IMPORTANT:** Do not apply adhesive in areas subjected to water immersion, constant humidity or hydrostatic pressures.

5.2 The tile installation surface must be DRY, porous, clean, FREE OF DUST, grease, oil, loose and peeling paint, free of concrete sealers/cures, old adhesive residues to assure maximum adhesion and complete drying of the adhesive. Rough concrete must be leveled with cement based materials. Do NOT USE gypsum underlays with this product without previous adhesion testing.

5.3 Minimum of 28 days water curing is required for all cement based surfaces. If tiles will be placed over plywood floors, maximum floor deflection must not exceed 1/360 of the floor span length. Plywood floor construction must have TWO (2) 5/8" thick plywood layers (offset joints) on joists with a maximum separation of 16 inches.

5.4 Apply BB MULTI-PURPOSE™ with a 1/4" square notched trowel following the recommendations of the tile manufacturer to assure proper adhesive transfer to tile covering at least 80% of the tile back with adhesive. Apply adhesive with flat side off trowel and cover surface with it. Next apply more adhesive and comb the Bull-Bond® MULTI-PURPOSE™ with trowel notched side removing any excess material from the substrate. DO NOT SPREAD more than what can be covered with tiles in 30 minutes. If adhesive dries superficially or skins; remove it and reapply new MULTI-PURPOSE™.

Place tiles firmly in position into the wet and tacky adhesive. Adjust and align embedded tiles promptly. Beat or twist ALL TILES to ensure a positive bond. Check work regularly for full contact between tile back and adhesive.

5.5 KEEP TILED FLOORS FREE OF TRAFFIC for at least 24 to 48 hours after installation, depending on ambient temperature. Use plywood boards to protect floor after 24 hours, if occasional pedestrian traffic is unavoidable.

5.6 Avoid impact vibration and hammering on walls adjacent, opposite or near installation for at least 7 days. This precaution is critical to assure a long lasting bond.

5.7 Clean adhesive from face of tile promptly with soapy water. If adhesive dries, use steel wool or mineral spirits to soften residues of Bull-Bond® MULTIPURPOSE™. Wash all tools and hands with soap and water if adhesive is fresh. CAUTION: Mineral spirits a flammable solvent. Avoid open flames and use adequate ventilation.

5.8 Locate and provide for all expansion and control joints where specified and/or required. Do not cover or fill expansion joints with adhesive. It is important to cut tiles on both sides of the expansion joint to allow joint movement. Install joint materials required before grouting.

5.9 Grout can be installed after 24 to 48 hours after allowing complete curing of MULTI-PURPOSE™ adhesive. Grout with recommended cement based, epoxy based or acrylic polymer based tile grout. Follow manufacturer recommendations and clean promptly to avoid staining of tiles.

5.10 Keep adhesive containers closed to maintain product in good conditions. Protect

containers from freezing, extreme heat and direct sunlight. Store in a cold, dry place.

6.0 SAFETY AND FIRST AID

CAUTION: Keep out of the reach of children. Avoid breathing product vapors. Use with adequate ventilation. Do not take internally. Avoid contact with eyes or prolonged contact with skin. In case of contact wash area with water. For eyes, flush immediately with plenty of water for 15 minutes. See a physician. Read MSDS before use.

WARNING: Small children can fall into open bucket and drown. Keep children away from open buckets and tile work areas.

NOTE: Since certain application conditions are beyond our control, our liability is limited to replace the adhesive material if proven defective or to refund the purchase price.

7.0 MAINTENANCE

BULL-BOND®MULTI-PURPOSE™ vinyl and ceramic tile adhesive is an excellent quality construction adhesive that requires no maintenance to ensure performance. For aesthetic/hygienic reasons we recommend cleaning the placed tiles and grouts with soap and water regularly.

8.0 AVAILABILITY

BB MULTI-PURPOSE™ paste tile adhesive is available in most hardware and building supply stores in Puerto Rico and the Caribbean.

Contractor customers can contact CONSPRO CORP. directly at (787) 653-4900 for technical assistance and sales service by one of our construction projects sales representatives or through our authorized distributors outside of Puerto Rico.

9.0 DISCLAIMER

CONSPRO CORPORATION products are designed to be used by competent persons in accordance with current published instructions and technical data. These materials are for use in the construction industry trade or for professional or industrial use.

We can not be responsible for problems caused by inferior workmanship, conditions unknown or beyond our control, or by the use of faulty secondary materials integrated to our product's final system use.

To be valid, all defective product claims must be received in writing; 180 days from the day of shipment or delivery. No claims will be considered without such written notice or after the specified time interval.

CONSPRO CORP. will promptly investigate all reported claims. Our investigator will prepare a written/oral report describing the nature of the problem and his explanations for the reported difficulties. An authorized officer of the Corporation will handle all complaints and resolve any pending problems after this point.

The user shall determine the suitability of the product for his intended use before application and/or use. The user assumes all liabilities and risks whatsoever in connection the use and application of the product.

All claims are voided if product is used contrary to CONSPRO CORPORATION published instructions.

10. PRODUCT WARRANTY

CONSPRO CORP. warrants that the adhesives distributed are of excellent quality, are formulated to exacting standards and comply with the specifications on the product label and data sheets.

If any material is found defective or unusable, CONSPRO CORPORATION will promptly replace the defective adhesive to the purchaser or refund the purchase price. CONSPRO CORP. liability is strictly limited to refund the purchase price or to replace the defective material.

This warranty is made in lieu of any and all other warranties, expressed or implied, including the warranties of merchantability and/or fitness for use which are hereby disclaimed.

It is understood and agreed that buyer's sole remedy and therefore seller's liability whether in contract, tort, under any warranty in negligence, or otherwise shall be limited to the return of the purchase price.

Under no circumstances shall seller be liable for special, indirect or consequential damages.

ALL WARRANTIES ARE VOIDED IF THE PRODUCT IS USED CONTRARY TO CONSPRO CORPORATION WRITTEN INSTRUCTIONS AND TECHNICAL DATA SHEETS.

For additional information contact CONSPRO CORPORATION, your nearest distributor, your sales representative or visit our Internet Web Sites at:

www.conspro.com or

www.bull-bond.com .

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