TECHNICAL DATA SHEET
Pro Bond Ultra / Pro Bond

Date Revised: March 2023
Supersedes: All Previous TDS

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT MANUFACTURER: Stone Edge Surfaces	**MANUFACTURER:** Turley International Resources, LLC.
PRODUCT NAME: Pro Bond Ultra / Pro Bond	4322 South 80th Street
	Mesa, AZ 85212 - USA
	TEL: 844-786-6333 E: info@stoneedgesurfaces.com
EMERGENCY: Call 911 or seek medical assistance immediately	**MEDICAL:** Call 911 or seek medical assistance immediately

PRODUCT COMPOSITION

Stone Edge Surfaces Pro Bond Ultra, formerly known as Pro Bond is ASTM E84 Fire and Smoke Class A Certified, and is a Multi-Use, Non-Hydrophobic, Pre Sanded, Fiber Reinforced Commercial Grade, Just-Add-Water, No Primer Required, Heavily Polymerized Extreme Bonding Concrete mix that has high flexural strength, extreme adhesion qualities, and is easily troweled or pumped. Pro Bond Ultra can be used as an Extreme Bonding Base Coat, an Underlayment and Repair Concrete, as well as having a high enough PSI to be a wearable Top Coat surface where it can be troweled smooth or a broom finish applied. Just like our standard Pro Bond, Pro Bond Ultra can be used to patch and repair spalled and damaged concrete areas, but unlike Pro Bond, Pro Bond Ultra can also be a standalone wearable Top Coat. Pro Bond Ultra is also used for deep fill applications from thin up to 4 inches deep. Pro Bond Ultra creates an incredibly strong and durable physical and chemical bond with a substrate and can be placed over concrete, stucco, plaster, drywall, Styrofoam, brick, block, tile, some wood, roof deck material, and much more. Pro Bond Ultra is durable, water resistant, and does not expand, contract, or warp when exposed to moisture.

MIXING & USE INSTRUCTIONS

MIXING INSTRUCTIONS: NOTE: Pro Bond Ultra is a "just add water" dry polymeric concrete mix. When mixing, add water to container first then add dry mix. Use cool, clean potable water and in hot climates you can ice your water. **SLOPING - BASE COAT – UNDERLAYMENT - CONCRETE REPAIR - DEEP FILL:** Use 2.75 – 3.75 QUARTS (2.60 - 3.54 L) WATER per 50# (22.68kg) bag. Start at 2.75 Quarts of water and add more water as needed. **PUMPING:** Recommend a 30+ GPM Max Discharge rate pump with capacity of 8 to 10 - 50# bag batch minimum (Strong Super80 or Placer type). Use 4 – 4.5 QUARTS (3.78 – 4.25 L) WATER per 50# (22.68kg) bag (start with 4 Quarts and add more water as needed). **NOTE: More/Less water** may be required depending on air temp., humidity, and water mineral content as water chemistry varies by location. **MIXING:** Mix for 3 minutes with mechanical mixer after all dry material has been added to water, add more water, if necessary, not to exceed maximum amounts listed above without testing workability and dry time. **APPLICATION:** For Pumping (see pumping instructions above). For Troweling, you can trowel tight over Lath, use a gauge Rake, Smoother, squeegee, or a magic trowel. **DRY and SET TIME:** Varies by thickness from 1 to 24 hours.

PRODUCT USES

Most Common Use & Finishes (*Not a Complete List*)

Base Coat. Underlayment. Create positive slope. Concrete Patch and Repair. Can be used on Exterior Walls, Block and Retaining Walls, Home Facades, Waterfalls, Fireplaces, Outdoor Kitchens, Pillars, Shower Walls, and Commercial Building Facades. It can also be used as a high traffic area refurbishment coating, Light and Deep Fill, and as a wearable top coat smooth or broom finish. Pro Bond Ultra can also be colored and can take stains, topical or integral colors.

Coverage

Thickness	1/8" Thick	3/16" Thick	1/4" Thick	3/8" Thick	1/2" Thick	3/4" Thick	1" Thick	1.5" Thick	2" Thick
SQFT Covered Per Bag	48	36	24	16	12	8	6	4	3

Coverage will vary depending on porosity and condition of substrate as well as human factor of technique of application and tools used to obtain desired depth. See full product coverage below

PRODUCT CAUTIONS

Product must be installed over a stable substrate using proper preparation and installation procedures. All loose materials, or materials that are likely to come loose, must be removed from substrate before product is applied to reduce the risk of delamination. All expansion/cut joints in the existing substrate must be honored. Extra joints may be added as deemed necessary by the installer. Recommended temperature of air and surface for Pro Bond Ultra application is 40-95F (4.4 to 35C). Ideal temperature for application is 70F (21.11C). Make sure surface area is cool before applying. If forecast or substrate temperature is below 40F (4.4C) at the time of application DO NOT proceed with application. Pro Bond Ultra is highly adhesive and will adhere to just about everything so make sure to clean any excess pro Bond off tools, work area surroundings, etc., before it fully cures.

PRODUCT PHYSICAL PROPERTIES

ITEM	TESTING USED or MEETS OR EXCEEDS	RESULTS or MEETS OR EXCEEDS
Compressive Strength:	ASTM C 39	5,100 psi
Flexural Strength:	ASTM C 78	1,210 psi
Adhesion:	MIL-D-3134 Para. 3.7.14 (Shear from steel plate after 96 hours)	312 psi
Water Absorption:	ASTM C624	4.2%
Tensile Strength:	ASTM C190	655 psi
Resistance to Elevated Temperatures:	MIL-D-3134, Para. 4.7.5.1	No Flow or Slip
Abrasion Resistance:	ASTM C 779	.13 in" (300 cycles)
Coefficient of Thermal Expansion:	ASTM C531	6.8 E-04
Electrical Conductivity:		Dielectric
Flammability - Flame Spread Index:	ASTM E84-19b … Flame Spread Index	FSI: 0 (Certified CLASS A)
Smoke Development Index:	ASTM E84-19b … Smoke Development Index	SDI: 10 (Certified CLASS A)
Freeze Thaw:	ASTM C 666/C 666M-03 (Standard Test Method for Resistance of Concrete to Freezing and Thawing, Procedure A - Freezing and Thawing in Water) The relative dynamic modulus indicates that Product is:	Freeze-thaw durable after 300 cycles.

See SDS Sheet for Physical Properties and Safety Information

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PRODUCT BENEFITS

One Component Mix. No Liquid Polymers to add. Just add water on Job site.		No VOC (volatile organic compound) emission
Reinforced with Latest, State of The Art Polymers and Fibers.		Contributes to USGBC credits under LEED rating system.
Polymers used are “non-hydrophobic” & will not weaken or re-emulsify in standing water.		Abrasion and wear resistant
Application Flexibility: Pump, Screed Rake, Trowel, Magic Trowel, Squeegee		Extremely Self Adhesive
Warranted bondability		Can be used vertically, horizontally or overhead
Moisture tolerant and breathable		Water clean up
Extremely Adhesive as a Mortar Bed or Thin Set for Tile		Can be applied thin or deep fill
Can be mixed thicker for Sloping		

PRODUCT CLEANABILITY

As a Top Coat, once dry…Pro Bond Ultra is similar to standard concrete surfaces and the same cautions and cleaning procedures apply. In other words, if it will soak in and stain concrete, it will soak in and stain Pro Bond Ultra. In general, the more aggressive the finished surface the greater the coefficient of friction and corresponding skid resistance, and the more difficult to clean. The smoother the finished texture the easier the surface is to clean, but there is a loss of skid resistant properties. As a precautionary step, Stone Edge Surfaces recommends that the end-user test their cleaning and disinfecting compounds on a small non-conspicuous area before use.

PRODUCT COVERAGE

Coverage may vary depending on conditions, amount and type of water used, application methods, skill level, and overall thickness of your application, your results may vary. Average coverage per 50 Lb bag: Approximately 36 sqft over 2.5 metal lath.

Thickness	1/32” Thick	1/16” Thick	1/8” Thick	3/16” Thick	1/4” Thick	3/8” Thick	1/2” Thick	3/4” Thick	1” Thick	1.5” Thick	2” Thick
SQFT Covered Per Bag	180	90	48	36	24	16	12	8	6	4	3

PRODUCT SHELF LIFE

If properly stored, the expected shelf life can exceed 6-12 months. However, it is recommended that product be used as soon as possible after delivery. Rotate stock to use oldest inventory first. Store under roof and keep dry.