

Pro Bond

PRODUCT AND COMPANY IDENTIFICATION		
PRODUCT MANUFACTURER: Stone Edge Surfaces	MANUFACTURER: Turley International Resources, LLC.	
PRODUCT NAME: Pro Bond	4322 South 80 th Street	
	Mesa, AZ 85212 - USA	
	TEL: 844-786-6333 E: info@stoneedgesurfaces.com	
EMERGENCY: Seek Medical Assistance and Call 911	MEDICAL: Seek Medical Assistance and Call 911	
PRODUCT COMPOSITION		
<p>Stone Edge Surfaces Pro Bond is ASTM E84 Fire and Smoke Class A Certified, and is a Multi-Use, Pre Sanded, Commercial Grade, Single Component, Just-Add-Water, No Primer Required, Heavily Polymerized Extreme Bonding Concrete mix that has high flexural strength, sticks to just about everything and is extremely easy to use. Pro Bond is an Extreme Bonding Base Coat, Underlayment and Repair Concrete Mix and is most often used as a horizontal Concrete Repair mix for filling of spalled and damaged concrete areas before applying an overlay. Pro Bond is also used for deep fill applications from thin up to 3 inches thick, and it is used on decks and roofs to create positive slope. Pro Bond is the Base Coat in our Deck Waterproofing Systems, has been approved as a Top Coat over FoamCrete materials on Commercial Roofs, and is used in Swimming Pools as a Scratch Coat, just to name some of its uses. Pro Bond creates an incredibly strong, durable, and water resistant physical and chemical bond between the substrate and concrete overlays, concrete, plaster, drywall, Styrofoam, brick, block, tile, gunite and more. If you use Westcoat ,Pli-Dek, Multicoat, Life Deck or other waterproof decking systems, or if you use PermaKote or Multicoat Scratch Kote when refurbishing swimming pools...Pro Bond is a fantastic alternative.</p>		
MIXING & USE INSTRUCTIONS		
<p>MIXING INSTRUCTIONS: NOTE: 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. BASE COAT – UNDERLAYMENT - CONCRETE REPAIR: Use 3.5 - 4 QUARTS (3.31 - 3.78 L) WATER per 50# (22.68kg) bag. Start at 3.5 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 at 4 Quarts and add more water as needed). NOTE: More/Less water may be required depending on air temp., humidity, 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: Pumping (see pumping instructions above). Trowel tight over Lath. Gague Rake, Trowel, Smoother, or Heavy Nap Roller for base coats and Concrete Repair. Use a heavy Loop Roller to create vertical scratch coat. DRY TIME: Varies by thickness from 1 hours to 24 hours.</p>		
PRODUCT USES		
Most Common Use (<i>Not a Complete List</i>)	Thickness	Best Finish
Deck and Balcony Waterproofing System Base Coat. Base Coat. Underlayment. Create positive slope. Swimming pool refurbishment as the layer under the gunite or plaster. Vertical Primer/Scratch Coat of Interior Walls, Exterior Walls, Block and Retaining Walls, Home Facades, Waterfalls, Fireplaces, Outdoor Kitchens, Pillars, Shower Walls, Commercial Building Facades and More. Horizontal Substrate Refurbishment, Light Fill, Underlayment for Adverse Condition Concrete, Repair of Spalled Concrete Surface Before Overlay Coat Application, Nonskid Application Resurfacing.	Average coverage per 50 Lb bag: Approximately 36 sqft over 2.5 Metal Lath, 75 sqft (rolled).	Base Coat. Broom Finish. Trowel and pump. Coverage will vary depending on porosity and condition of substrate as well as human factor of technique of application. Recommended temperature of air and surface for Pro Bond 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 is below 40F (4.4C) at the time of application DO NOT proceed with application.
PRODUCT CAUTIONS		
<p>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.</p>		
PRODUCT PHYSICAL PROPERTIES		
ITEM	TESTING USED or MEETS OR EXCEEDS	RESULTS or MEETS OR EXCEEDS
Compressive Strength:	ASTM C 39	2,100 psi
Flexural Strength:	ASTM C 78	1,650 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 "hydrophobic" & will not weaken or re-emulsify in standing water.	Abrasion and wear resistant
Application Flexibility: Pump, Screed Rake, Trowel, Magic Trowel, Loop Roller,	Can be used in Swimming Pools, Ponds, etc.
Warranted bondability	Can be used vertically, horizontally or overhead
Moisture tolerant and breathable	Water clean up
PRODUCT CLEANABILITY	
Pro Bond as a Base Coat, Nt Applicable. As a Top Coat, In general, the more aggressive the finished surface the greater the coefficient of friction and corresponding skid resistance, 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. Average coverage per 50 Lb bag: Approximately 36 sqft over 2.5 metal lath (Deck Waterproofing System). 6 sqft at 1". 8 sqft at ¾". 12 sqft at ½". 16 sqft at 3/8". 24 sqft at ¼". 36 sqft at 3/16". 48 sqft at 1/8". 90 sqft at 1/16". 175 sqft at 1/32". Your results may vary.	
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.	
PRODUCT LIMITED WARRANTY	
<p>Limited Warranty: Stone Edge Surfaces, a division of Turley International Resources, LLC., (further known as manufacturer), products are warranted to be free of manufacturers defect in material and formulation for 3 years (the warranty period) from the date of purchase from manufacturer, when applied per manufacturer's instructions, and as provided specifically in the terms and conditions herein. TERMS: Upon verification of factory defect, manufacturer reserve the right, at its sole discretion, to replace the product purchased or refund the purchase price paid to the manufacturer. The refund amount will be based on the most current product pricing at the time warranty coverage is approved. For Products to be deemed warrantable, they must be inspected, and warranty approved by an authorized manufacturer representative. This Limited Warranty does not cover, nor is manufacturer responsible for, any project costs or delays, and no remedies will be made for loss and/or usage of fuel, labor, demolition, haul away, clean up, service, travel, transport, reapplication, parts, or any other costs in excess of the purchase price of the products paid to the manufacturer or use of resources resulting from a failure of a warrantable product. Warranty also does not cover products that have been modified, altered, improper mixing not in accordance with manufacturers guidelines or instructions, misused or used in a way not recommended by manufacturer, used after shelf life expiration, acts of God, adverse environmental conditions beyond manufacturers control, inadequate contractor skill level or quality of contractor workmanship, fading over time, improper prep of application area, chemical damage, unstable, cracking or shifting substrate causing product failure. Product replacement or refund of product purchase price from manufacturer are manufacturer's sole obligations under this limited warranty.</p>	