

PRO Trowel Mix

PRODUCT AND COMPANY IDENTIFICATION	
PRODUCT MANUFACTURER: Stone Edge Surfaces	MANUFACTURER: Turley International Resources, LLC.
PRODUCT NAME: Pro Trowel Mix	4322 South 80 th Street
SUPPLIER: N/A	Mesa, AZ 85212 - USA
	TEL: 844-786-6333 E: info@stoneedgesurfaces.com
EMERGENCY: CHEMTREC P: 703-527-3887 F:703-527-3887 (International)	MEDICAL: 3E Company P:800-451-8346 F:760-602-8856 (International)

PRODUCT COMPOSITION

Stone Edge Surfaces Pro Trowel Mix is a polyacrylate, modified cementitious overlay mix that is a water-phase elastomeric resin composition incorporating resin primers, cement, cement modifiers, polymers, fibers and aggregates. Product is a ready to use, one component “just-add-water” easy to use mix that comes in Gray or White in a 50 lb. bag. All necessary ingredients are contained in the bag with water being added on site. Use the White Mix for projects with constant water presence such as waterfalls, showers, swimming pool or pond area, etc., as the White has better water protection properties.

PRODUCT USES			
Most Common Use (Not a Complete List)	Thickness	Best Finish	Why it's Better
<ul style="list-style-type: none"> • Patio...BROOM FINISH • Driveway... BROOM FINISH • Sidewalk, Pathway & Walkway... BROOM FINISH • Hand Textured Trowel Finishes over Concrete • Substrates-(Skip Trowels, Free Hand Trowel Texturing) • Top Coat Cementitious material for over Stenciling • Tape downs • Basecoat materials • Aggressive Spray Texturing Vertically & Horizontally • Vertically Troweled Pargings Over Concrete, Block, or Brick 	1/8" to 3/8"	Broom Finishes Troweling Hand Texturing Stenciling	Fine sand with High PSI/Flexural Strength and extreme user friendliness allowing for immediate carving and stamping once applied
Product is typically used as a horizontal Broom or Trowel finish for flooring, decking, driveway, patio and sidewalk applications. It is used in both commercial and residential applications. Product is used on interior or exterior horizontal substrate surfaces to achieve (most common) Broom or Troweled concrete overlay finish. (Less common) Has finer aggregate size and is used in place of Pro Stamp Mix to achieve the look of stone, brick, pavers, wood, tile, rock, slate, and many more looks. Product can be applied over concrete, wood, metal and other surfaces. Product is designed to be used in conjunction with Primer 100, Primer 110, or Pro Bond and enhanced by incorporating pigments, stains, and sealers to customize and finish the coloring and sealing process. Product can be used from thin finish to deep fill, and can be used with stencils, Trowels, troweled, or worked freehand.			

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. Stone Edge Surfaces Primers and Pro Bond have been chemically engineered to be compatible with Product to enhance bonding properties, and are required to be used with the Product to validate product warranty.

PRODUCT PHYSICAL PROPERTIES			
ITEM	TESTING USED or DATA AVAILABLE	RESULTS or DATA AVAILABLE	
Compressive Strength:	ASTM C 39	4,150 psi	
Flexural Strength:	ASTM C 78	545 psi	
Adhesion:	MIL-D-3134 Para. 3.7.14 (Shear from steel plate after 96 hours)	312 psi	
Water Absorption:	ASTM C 624	4.2%	
Indentation Characteristics:	(Steadily Applied Load) MIL-D-3134, Para. 4.7.4.2.1 (2000 lbs. on 1" steel ram imposed for 30 minutes)	1.%	
Indentation Characteristics:	(Impacted Load) MIL-D-3134, Para 4.7.3 (2 lb. Steel ball dropped from 8-foot height)	0.006" indent. No loosening or cracking.	
Tensile Strength:	ASTM C190	642 psi	
Resistance to Elevated Temperatures:	MIL-D-3134, Para. 4.7.5.1	No flow or Slip	
Abrasion Resistance:	ASTM C 779	.032 in"	
Coefficient of Thermal Expansion:	ASTM C531	6.8 E-04	
Electrical Conductivity:		Dielectric	
Flammability:	ASTM E162 Flame Spread Index.	0.47	
	Smoke Deposited.	Less than 0.1 mg.	
	ASTM 84. Flame Spread Rate	0	
	Smoke Density Factor	3	
	Fuel Contribution Rate	0	
Slip Resistance:	(Coefficient of Sliding Friction) On smooth, non-textured finish with no sealer: NOTE: Slip Resistance is more related to the type of finish and sealers used, rather than the Product itself	Dry Leather	0.43
		Dry Rubber	0.59
		Wet Leather	0.68
		Wet Rubber	0.70

PRO Trowel Mix

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.																																																			
	MODIFIED ASTM C 666 - PROCEDURE A																																																				
	<p style="text-align: center;">Modified ASTM C 666 - Procedure A Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing</p> <table border="1"> <thead> <tr> <th>Sample Identifications</th> <th>Freeze-Thaw Cycles</th> <th>Length Change, %</th> <th>Mass Change, %</th> <th>Relative Dynamic Modulus, %</th> </tr> </thead> <tbody> <tr><td></td><td>0</td><td>0.00</td><td>0.00</td><td>100</td></tr> <tr><td></td><td>37</td><td>0.01</td><td>-0.22</td><td>97</td></tr> <tr><td rowspan="10">Overlay 1, 2 and 3</td><td>69</td><td>0.02</td><td>-0.40</td><td>95</td></tr> <tr><td>99</td><td>0.03</td><td>-0.56</td><td>97</td></tr> <tr><td>129</td><td>0.02</td><td>-0.62</td><td>94</td></tr> <tr><td>163</td><td>0.03</td><td>-0.45</td><td>93</td></tr> <tr><td>193</td><td>0.02</td><td>-0.50</td><td>98</td></tr> <tr><td>222</td><td>0.02</td><td>-0.58</td><td>98</td></tr> <tr><td>232</td><td>0.02</td><td>-0.63</td><td>98</td></tr> <tr><td>265</td><td>4.04</td><td>-0.72</td><td>98</td></tr> <tr><td>301</td><td>0.03</td><td>-0.81</td><td>98</td></tr> </tbody> </table>		Sample Identifications	Freeze-Thaw Cycles	Length Change, %	Mass Change, %	Relative Dynamic Modulus, %		0	0.00	0.00	100		37	0.01	-0.22	97	Overlay 1, 2 and 3	69	0.02	-0.40	95	99	0.03	-0.56	97	129	0.02	-0.62	94	163	0.03	-0.45	93	193	0.02	-0.50	98	222	0.02	-0.58	98	232	0.02	-0.63	98	265	4.04	-0.72	98	301	0.03	-0.81
Sample Identifications	Freeze-Thaw Cycles	Length Change, %	Mass Change, %	Relative Dynamic Modulus, %																																																	
	0	0.00	0.00	100																																																	
	37	0.01	-0.22	97																																																	
Overlay 1, 2 and 3	69	0.02	-0.40	95																																																	
	99	0.03	-0.56	97																																																	
	129	0.02	-0.62	94																																																	
	163	0.03	-0.45	93																																																	
	193	0.02	-0.50	98																																																	
	222	0.02	-0.58	98																																																	
	232	0.02	-0.63	98																																																	
	265	4.04	-0.72	98																																																	
	301	0.03	-0.81	98																																																	

See SDS Sheet for Physical Properties and Safety Information


PRODUCT BENEFITS

One Component Mix. No Liquid Polymers to add. Just add water on Job site.	No volatile organic compound emission
Reinforced With Latest, State Of The Art German Engineered Polymers.	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, i.e., Trowel, stencils, Trowels, troweled or free-hand	Low maintenance costs
Warranted bond ability	Wide range of textures and colors
Moisture tolerant and breathable	Water clean up

PRODUCT CLEANABILITY

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. Cleaning and disinfecting compounds and cleaning techniques can affect the color, gloss, texture and performance of the product. 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. Follow sealer manufacturer recommendations for maintenance and cleaning. Slip resistance is greatly affected by the sealers and texture used. Follow sealer manufacturer recommendations for slip resistance and prevention.

PRODUCT COVERAGE

Stone EDGE Surfaces Bag Mix Coverage										
			Stamp/Trowel/Spray Mix Coverage sqft @							
# of BAGS	1/32" Thick	1/16" Thick	1/8" Thick	1/4" Thick	3/8" Thick	1/2" Thick	3/4" Thick	1" Thick	1.5" Thick	2" Thick
1	180	90	48	24	16	12	8	6	4	3

PRODUCT SHELF LIFE

If properly stored, the expected shelf life can exceed 6 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

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 90 days (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.