

Micro Coating Mix

PRODUCT AND COMPANY IDENTIFICATION			
PRODUCT MANUFACTURER: Stone Edge Surfaces		MANUFACTURER: Turley International Resources, LLC.	
PRODUCT NAME: Micro Coating Mix		4322 South 80 th Street	
PRODUCT NAME: Must be mixed with Modifier 500		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			
<p>Stone Edge Surfaces Micro Coating Mix is a polyacrylate, modified cementitious, overlay system that can be sprayed on already textured concrete or manufactured stone both horizontally or vertically to leave the existing texture as is while leaving a thin layer of cementitious product that can be recolored. It is a water-phase elastomeric resin composition incorporating resin primers, cement, cement modifiers, polymers, and aggregates. Micro Coating comes in Gray or White in dry, 37 Lb. bucket that is mixed with a 5 Gallon Bucket of Modifier 500.</p>			
PRODUCT USES			
Most Common Use (Not a Complete List)		Thickness	Best Finish
<ul style="list-style-type: none"> Stampable Horizontal Overlays & up to 1/2" Vertical Patios...SPRAYED or ROLLED Driveways... SPRAYED or ROLLED Sidewalks, Path & Walkway... SPRAYED or ROLLED Pool & Spa Decks... SPRAYED or ROLLED Floors: Basement and all types of Cement Floors... SPRAYED or ROLLED Featheredge for Refurbishment 		1/32" to 3/8"	Sprayed Rolled Feathered
<p>Why it's Better High PSI and Flexural Strength and extreme user friendliness for refurbishment without affecting the texture.</p>			
<p>Stone Edge Surfaces Micro Coating Mix is typically sprayed on to achieve a paint-like thin layer of cementitious product over an existing textured surface for the purpose of recoloring and rejuvenation. Stone Edge Surfaces Micro Coating Mix may also be rolled onto an already textured concrete surface with a 3/4" nap roller. If applying over flat surface such as Garage floor or similar, then Micro Coating Mix must be sprayed using a Wagner type sprayer. Stone Edge Surfaces Micro Coating Mix may be applied over already sealed or painted concrete as well as may be acid stained after application has cured for more than 5 days. Micro Coating can be enhanced by incorporating Liquid Colors or ColorPax pigments, stains and sealers to finish the coloring and sealing process. Micro Coating Mix may also be used as a crack fill if the presence of a hairline crack occurs in concrete surface.</p>			
PRODUCT CAUTIONS			
<p>Product must be mixed with Stone Edge Surfaces Modifier 500. Micro Coating 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 Primer 100 and 110 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.</p>			
PRODUCT PHYSICAL PROPERTIES			
ITEM	TESTING USED or DATA AVAILABLE	RESULTS or DATA AVAILABLE	
Compressive Strength:	ASTM C 39	5,600 psi	
Flexural Strength:	ASTM C 78	675 psi	
Adhesion:	MIL-D-3134 Para. 3.7.14 (Shear from steel plate after 96 hours)	394 psi	
Water Absorption:	ASTM C 624	3.9%	
Indentation Characteristics:	(Steadily Applied Load) MIL-D-3134, Para. 4.7.4.2.1 (2000 lbs. on 1" steel ram imposed for 30 minutes)	1.20%	
Indentation Characteristics:	(Impacted Load) MIL-D-3134, Para 4.7.3 (2 lb. Steel ball dropped from 8-foot height)	0.008" indent. No loosening or cracking.	
Tensile Strength:	ASTM C190	685 psi	
Resistance to Elevated Temperatures:	MIL-D-3134, Para. 4.7.5.1	No flow or Slip	
Abrasion Resistance:	ASTM C 779	.044 in"	
Coefficient of Thermal Expansion:	ASTM C531	6.8 E-04	
Electrical Conductivity:		Dielectric	
Flammability:	ASTM E162 Flame Spread Index.	0.42	
	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

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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</p> <p style="text-align: center;">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
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See SDS Sheet for Physical Properties and Safety Information

PRODUCT BENEFITS

Great solution for rejuvenating and recoloring existing concrete surface	No volatile organic compound emission
May be either sprayed or rolled onto surface like paint	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
Very low influence from concrete vapor emission	Low maintenance costs
Warranted bond ability	Moisture tolerant and breathable

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 Micro Coating Mix + Modifier 500 will cover approximately 300-500 SQFT

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.