

MicroTop Mix

PRODUCT AND COMPANY IDENTIFICATION			
PRODUCT MANUFACTURER: Stone Edge Surfaces		MANUFACTURER: Turley International Resources, LLC.	
PRODUCT NAME: MicroTop Mix		4322 South 80 th Street	
PRODUCT NAME: Single Component Mix		Mesa, AZ 85212 - USA	
		TEL: 844-786-6333 E: info@stoneedgesurfaces.com	
EMERGENCY: Contact Local Hospital or Call 911		MEDICAL: Contact Local Hospital or Call 911	
PRODUCT COMPOSITION			
<p>Stone Edge Surfaces MicroTop Mix is a super fine aggregate, polyacrylate, modified cementitious and polymer enhanced overlay system. that can be rolled (using a heavy nap roller) or sprayed onto a Vertical or Horizontal and already textured concrete or manufactured stone surface to recolor it to a gray or white for recoloring...without effecting the texture. MicroTop Mix can also be Troweled, Magic troweled or Squeegeed down to a concrete substrate as a base coat layer for acid staining, tape down, stenciling, or troweled textures. MicroTop can also be used as a smooth Top Coat up to 1/16" thick. MicroTop Mix comes in Gray or White in 50 LB Bag or 37 LB bucket when in stock.</p>			
PRODUCT USES			
Most Common Use (Not a Complete List)		Thickness	Best Finish
<ul style="list-style-type: none"> • Refurbishment: Roll or Spray over existing textured concrete to bring back to a white or gray for recoloring. • Top Coat or Overlayment, troweled, magic troweled, squeegeed up to 1/16" thick • Patios, Driveways, Walkways, Pool Decks • Floors: Basement, Garage, all types of Cement Floors... SPRAYED, ROLLED, MAGIC TROWEL • From 1/16" down to a Feathered edge for Refurbishment 		Feathered Thin to 1/16"	Magic Troweled Troweled Squeegeed Sprayed Rolled
<p>Why it's Better Thin application with ease of workability and High PSI and Flexural Strength for refurbishment without affecting the texture, and exceptional smooth top coat.</p>			
<p>Stone Edge Surfaces MicroTop Mix...for refurbishment...can be sprayed or rolled (using a 3/4" nap roller) to achieve a paint-like thin layer of cementitious product over an existing textured surface for the purpose of recoloring and rejuvenation. If applying over flat surface such as commercial, basement or garage floor or similar, then MicroTop Mix can be sprayed using a Wagner type sprayer or a Hopper Texture Sprayer with a small orifice at high pressure. MicroTop Mix can also be Troweled, Magic Troweled, Squeegeed, or Rolled on. MicroTop Mix may be applied over already sealed or painted concrete and can be acid stained after curing for more than 7 days. MicroTop can be enhanced with Stone Edge Surfaces Liquid Colors or ColorPax pigments, stains and sealers to finish the coloring and sealing process. MicroTop Mix may also be used as a crack fill if the presence of a hairline crack occurs in concrete surface.</p>			
PRODUCT CAUTIONS			
<p>CAUTION WHEN USING SOLVENT BASED SEALERS: When Using Solvent Based Sealers...MUST Wait 7 Days OR MORE before ANY Solvent Based Sealers can be applied as Solvent Based Sealers may cause Delamination, Shrinkage or an "orange-peel" type effect to the surface. WATER BASED SEALERS: Water Based Sealers CAN be applied at any time after the initial cure. INSTALLATION PREP: 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. EXPANSION & CUT JOINTS: All expansion/cut joints in the existing substrate must be honored. Extra joints may be added as deemed necessary by the installer. USING PRIMER: Stone Edge Surfaces Primer 100 and 110 have been chemically engineered to be compatible with this Product at a 50/50 (primer to water) ratio to enhance bonding properties and are required to be used with the Product to validate product warranty. For best results for microtop or any concrete overlay application, a mechanically etched concrete surface is always preferable.</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																																																				
	<table border="1"> <thead> <tr> <th>Sample Identifications</th> <th>Freeze-Thaw Cycles</th> <th>Change, % Length</th> <th>Change, % Mass</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>-0.56</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	Change, % Length	Change, % Mass	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	-0.56	98	232	0.02	-0.63	98	265	4.04	-0.72	98	301	0.03	-0.81
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PRODUCT BENEFITS																																																					
Great solution for rejuvenating and recoloring existing concrete surface		No volatile organic compound emission																																																			
May be sprayed, rolled, troweled, magic troweled, or squeegeed		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																																																			
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 MicroTop Mix will cover approximately 300-500 SQFT when 37 LB bucket used or 400 to 650 SQFT with 50 LB Bag																																																					
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If properly stored, the expected shelf life can exceed 6 to 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.																																																					
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