

SwiftSet Self-Leveler

PRODUCT AND COMPANY IDENTIFICATION			
PRODUCT MANUFACTURER: Stone Edge Surfaces		MANUFACTURER: Turley International Resources, LLC.	
PRODUCT NAME: SwiftSet Self-Leveler		4322 South 80 th Street	
		Mesa, AZ 85212 - USA	
		TEL: 844-786-6333 E: info@stoneedgesurfaces.com	
EMERGENCY: 911 or Emergency Room at Hospital		MEDICAL: 911 or Emergency Room at Hospital	
PRODUCT COMPOSITION			
<p>Stone Edge Surfaces <u>SwiftSet Self-Leveler</u> is an ASTM E84 Fire and Smoke Class A Certified, fast setting (2-4 hours), walkable (4- 6 hours), pre-sanded, single component (just add water), polymer enhanced, Portland and Hydraulic cement and proprietary additive self-leveling underlayment or base coat mix. SwiftSet is used to create a smooth flat and level surfaces for the installation of various flooring types, or the repair or leveling of low spots in concrete substrates. SwiftSet creates a strong physical & chemical bond to a concrete substrate with the use of Stone Edge Surfaces Primer 100. SwiftSet comes in 50 lb. bags, with all necessary ingredients being contained in the bag except Primer and water...add water to the mix and apply primer to the substrate at job site. MIXING: NOTE: Start by adding water to container, then add dry mix. Then mix Stone Edge Surfaces Self-Leveler 50 LB Bag with cool, clean potable water. WATER REQUIREMENTS: Add approx. 5.5 to 6.5 Quarts (5.2 to 6.15 Liters) of water per 50# (22.68kg) bag, with 6 being the sweet spot in most climates, but be prepared and test first as more water may be required if pumping. NOTE: Add ½ OZ (1 Tablespoon) <u>Cream of Tartar</u> or Tartaric Acid (found in any grocery store) per bag to increase working time up to 30 minutes and to keep the hydraulic cement components from kicking too early. Adding Cream of Tartar may help slow down (retard) the mix if SwiftSet is being pumped or mixed in multiple bag batches or in extreme heat situations. NOTE: Only apply over a clean properly prepped and Primered substrate. NOTE: More/Less water may be required depending on air temp., humidity, water mineral content as water chemistry varies by location. Mix for 3-5 minutes with mechanical mixer after all dry material has been added to water. Do not false set...use immediately as working time is short (10-18 minutes depending on temperature, climate, etc., if you have not extended the working time with Cream of Tartar. APPLICATION: Pour or pump mix onto stable substrate. Due to mix surface tension, you may need to push or screed or use a porcupine roller on the mix to break the surface tension on leading edges and throughout the mix to keep it flowing until it reaches all barriers. Add aggregate for deeper fill. SET AND USE TIMES: The following are averages and vary by thickness, temp, etc.: Set Time, 2-4 hours. Walkable in 4-6 hours. Floor Coverings in 4 – 8 hours (non-moisture sensitive). Floor Covering 16-24 hours (moisture sensitive). Driveable in 24-48 hours.</p>			
PRODUCT USES			
Most Common Use (Not a Complete List)	Thickness	Best Finish	Why it's Better
<ul style="list-style-type: none"> Underlayment...Smooth, flat, level surface for the installation of carpet, tile, and other flooring types. Flat, smooth walkable or drivable surfaces in hours Sound mitigation in multi-story wood construction units when applied over sound mat or other sound dampening materials Create ASTM E84 fire and smoke compliant floors in multi-family construction Indoor or outdoor use 	Feather edge to 2" deep, and up to 3+" with added aggregate.	Smooth surface Integrally colored Polished	<ul style="list-style-type: none"> - Does Not use Gypsum, so gets hard and stays hard - Hard, yet has flexural strength - Accepts integral coloring - Can be sanded or ground - Can apply overlays over it - Can apply most flooring types over the surface - Can be applied over Sound Mat
PRODUCT CAUTIONS			
<ul style="list-style-type: none"> - SwiftSet must be used with Primer 100. - SwiftSet 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. - Surface tension may cause product to stop flowing, make sure to break surface tension during application until product reaches all barriers and starts to self-level. - Do Not over water. - Can use up to ½ OZ Cream of Tartar per bag as a retarder to increase working time...using too much cream of tartar may cause mix to not set for many hours. 			
PRODUCT PHYSICAL PROPERTIES			
ITEM	TESTING DATA. PENDING DATA SHOWN WITH "**". BASED ON AVAILABLE DATA OF SIMILAR STONE EDGE SURFACES PRODUCTS***.	ESTIMATED DATA	
Compressive Strength:	102	10,246 psi (28 day)	
Flexural Strength:	ASTM C 78	720 psi	
Adhesion:	MIL-D-3134 Para. 3.7.14 (Shear from steel plate after 96 hours)	405 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)	.94%	
Indentation Characteristics:**	(Impacted Load) MIL-D-3134, Para 4.7.3 (2 lb. Steel ball dropped from 8-foot height)	0.004" indent. No loosening or cracking.	
Tensile Strength:	ASTM C190	766 psi	
Resistance to Elevated Temperatures:	MIL-D-3134, Para. 4.7.5.1	No flow or Slip	
Abrasion Resistance:	ASTM C 779	.037 in"	
Coefficient of Thermal Expansion:	ASTM C531	6.8 E-04	

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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
See SDS Sheet for Physical Properties and Safety Information			

PRODUCT BENEFITS

Pre-Sanded Mix in 50 lb Bags	Can be ground and sanded
Reinforced With Latest, State Of The Art Polymers.	Contributes to USGBC credits under LEED rating system.
Can apply flooring and overlays over it	Abrasion and wear resistant, can take auto or forklift traffic
Application Flexibility, i.e., can be poured or pumped	Can be used indoors or outdoors
Consistent Sand Color... not salt & pepper	Can be Integrally Colored
Does not use Gypsum so gets hard and stays hard	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

Based on Product Applied Thickness...SQFT Coverage Per Bag:

# of Bags	Applied At 1/4" Thickness	Applied At 3/8" Thickness	Applied At 1/2" Thickness	Applied At 3/4" Thickness	Applied At 1" Thickness	Applied At 1.5" Thickness	Applied At 2" Thickness
1	24 sqft	16 sqft	12 sqft	8 sqft	6 sqft	4 sqft	3 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.