

PRODUCT DESCRIPTION:

ROLL ON ROCK® is a multi-layer decorative epoxy flooring flake system designed to provide granite look to flooring surfaces while delivering substrate protection. This installation guide provides the installer with one or two-day installation methods along with several clear topcoat options. Roll on Rock is a high build floor coating that is low in VOC and is in compliance with the strictest SCAQMD Rules in the country. It consists of a colored epoxy primer that wicks deep into the concrete floor surface, creating an incredible bond that will be able to withstand up to 9lbs of MVE (moisture vapor emission). Roll on Rock® uses colorful flakes to achieve a beautiful multi-color finish with a high build and ultra-high build clear Polyurea or Polyaspartic Topcoat options that exhibit incredible high gloss while providing extreme chemical and wear resistance.

APPLICATIONS:

- Residential Floors
- Commercial Floors
- Industrial Floors

ADVANTAGES:

- Withstands up to 8lbs MVE
- Excellent Wearability
- Excellent Chemical Resistance
- Excellent Abrasion Resistance
- Low VOC
- Low Odor
- 1-day system w/ Accelerators

LIMITATIONS:

- Will not bridge cracking
- All sources of ignition shall be turned off and adequate ventilation should be used

SYSTEM COMPOSITION:

PRIMER	4195	3A:1B	200 FT ² / GAL
BROADCAST MEDIA	1" FLAKE		400 FT ² / 40# Box
	1/4" FLAKE		400 FT ² / 40# Box
	1/8" FLAKE		350 FT ² / 40# Box
	1/16" FLAKE		300 FT ² / 40# Box
	MICA FLAKE		150 FT ² / 12# Box
TOPCOAT	5085	1A:1B	150 FT ² / GAL

TECHNICAL PROPERTIES:

VOC	>50 g/L	
FOOT TRAFFIC	8-12 Hours @ 75°F	
VEHICAL TRAFFIC	48-72 Hours @ 75°F	
FULL CURE	5-7 Days	
MIL THICKNESS	24 Mils WFT	
SHORE D HARDNESS	ASTM D3363	75-80
TENSILE STRENGTH	ASTM D638	8,600 PSI
FLEXURAL STRENGTH	ASTM D790	11,200 PSI
COMPRESSIVE STRENGTH	ASTM D695	10,100 PSI
ADHESION	ACI 503R	450 PSI
ABRASION RESISTANCE	ASTM D4060	2.78 mg Lost
WATER VAPOR TRANSMISSION	ASTM E96 PROCEDURE B	0.2272 g/Hr/Ft ²

CHEMICAL RESISTANCE:

ACETONE	NO EFFECT
XYLENE	NO EFFECT
10% HCL	NO EFFECT
AMMONIA	NO EFFECT
DEGREASER	FAINT SPOTTING
LIQUID PLUMMER	NO EFFECT
VINEGAR	NO EFFECT
CLOROX	NO EFFECT
WINDEX	NO EFFECT
MOTOR OIL	NO EFFECT
GASOLINE	NO EFFECT
SKYDROL	NO EFFECT
HOT TIRE	NO EFFECT

APPLICATION EQUIPMENT:

Protective Clothing	
Slow Speed Drill	5-Gallon Bucket SKU – 7320

SUBSTRATE REQUIREMENTS:

CONCRETE:	Concrete must be structurally sound and free of all dirt, debris, and contaminants
PROFILE:	Concrete shall be porous and have a Concrete Surface Profile (CSP) level between 2 & 4
MOISTURE:	Substrate shall have Moisture Vapor Emission Rate (MVER) of 9lbs / 1000 ft ² / 24 hr. or less
TEMPERATURE:	Ambient and substrate temps must be above 35°F and Relative Humidity should not exceed 65%

SURFACE PREPARATION:









	Perform Moisture Test using Calcium Chloride concrete moisture test kit per ASTM F1869 1 test/1000 ft ² is recommended.
	Patch all depressions, divots and cracks using 4900 5-minute Crack Weld, 4930 Polyurea Crack & Spall Filler, or Divot Patch to reduce the ability to see the defect through the epoxy coating.
	Concrete should be mechanically profiled and prepared to produce a Concrete Surface Profile (CSP) level between #2 & #4 according to the (ICRI) Guideline No.03732.

PLEASE REVIEW SAFETY DATA SHEETS (SDS) & CHEMICAL SAFETY GUIDE FOR SAFETY AND PRECAUTIONS

ENVIRONMENTAL FACTORS:

Working times are affected by environmental conditions. Large masses of mixed and/or heated material will have shorter pot-life. Keep material core temps between 50-75°F. In elevated temps consider icing buckets to reduce product temps and cold climates use pail warmers

4195 MIXING STEPS:

 	Premix A-Component with drill at slow speed for 30 seconds to thoroughly blend pigment.						
	Pour B-Component into pre-mixed A-Component (If mixing bulk kit be sure to follow specified 3A:1B ratio)						
 	Mix A & B Components using drill at slow speed for 2 minutes (If using optional accelerators add while mixing)						
<table border="1"> <thead> <tr> <th colspan="2">41 SERIES ACCELERATORS</th></tr> </thead> <tbody> <tr> <td>37-45°F</td><td>2 Accelerators/Gal</td></tr> <tr> <td>45-60°F</td><td>1-2 Accelerators/Gal</td></tr> </tbody> </table>		41 SERIES ACCELERATORS		37-45°F	2 Accelerators/Gal	45-60°F	1-2 Accelerators/Gal
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	Transfer mix to new mixing vessel						
 	Continue to mix for an additional 30 seconds to ensure components are thoroughly blended.						

4195 APPLICATION STEPS:

COVERAGE RATES:

1 ST COAT	200-250 FT ² / GAL @ 6.4-8 MILS WET FILM
2 ND COAT	225-275 FT ² / GAL @ 5.8-7.1 MILS WET FILM




FLAKE COVERAGE RATES:


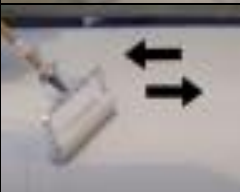



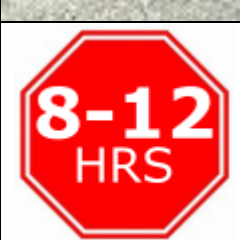
1/4" FLAKE	1/8" FLAKE	1/16" FLAKE	MICA FLAKE
400 FT ² /40#	350 FT ² /40#	300 FT ² /40#	150 FT ² /12#

APPROXIMATE WORKING TIMES:

50 MINS @ 75°F

1 ACCELERATOR/ GAL	2 ACCELERATORS/GAL
40 MINS @ 75°F	30 MINS @ 75°F

	Reclaim excess flake from surface using blower or push broom.
	Using rigid floor scraper scrape the flake in north and south direction with even pressure to remove ridges. Perform same steps in east and west direction
	Vacuum surface to remove all residual flake

	Cut in edges and stem walls if applicable with 4" chip brush and Pour a band of mixed material out onto the floor roughly 6-8" wide
	Begin spreading with an 8-12 mil notched squeegee or 18" x 3/8" nap roller. Work material evenly keeping a wet edge
	Perform a Single Backroll on the surface by walking into the wet material wearing spike shoes and roll perpendicular to your first direction of application.
	Broadcast flake into wet 4195 immediately. Broadcast 2/3 coverage initially then begin broadcasting to rejection. This ensures enough flake to cover entire surface
	Dry roll the surface with a new 18" roller with the sleeve still intact to promote flake adhesion to wet epoxy
	Allow system to dry typically standard 8-12 hours at 75°F ACCELERATED dry time 4-6 hours at 75°F

5085 MIXING STEPS:

	Pour pre-mixed A-Component and B-Component into a clean 5-gallon bucket (If mixing bulk kit be sure to follow specified 1A:1B ratio)
	Mix A & B Components using drill at slow speed for 2 minutes
	Transfer mix to new mixing vessel



Continue to mix for an additional 30 seconds to ensure components are thoroughly blended.

5085 APPLICATION STEPS:

COVERAGE RATES OVER FLAKE SYSTEM:

1/4" FLAKE	1/8" FLAKE	1/16" FLAKE
150 FT ² / GAL	140 FT ² / GAL	125 FT ² / GAL

APPROXIMATE WORKING TIMES: 55 MINS @ 75°F



Pour a band of mixed material out onto the floor roughly 6-8" wide



Begin spreading with an 8-12 mil notched squeegee or Magic Trowel. Work material evenly keeping a wet edge



Perform a Single Backroll on the surface by walking into the wet material wearing spike shoes and roll perpendicular to your first direction of application.



Allow system to dry typically 3-6 hours at 75°F
Slow-Dry (SD) Version is dry 5-8 hours at 75°F
Foot Traffic -12 hrs
Item Placement-24 hrs
Vehicular Traffic- 48-72 hrs

CLEAN-UP:

Immediately clean up splatter marks and tools with MEK or Acetone. Clean hands and exposed skin with mild soap and water, and/or citrus based hand cleaner.

MAINTENANCE:

Maintain 5085 to minimum of 4 mils dry film.

DISCLAIMER:

All information provided in this technical data sheet is based on laboratory data. It is the responsibility of the customer to test the material for their application and conditions prior to using the product.

TEMPERATURE:

The product was tested at ambient temperature (75°F -77°F). Results WILL vary when product is used at temperatures different from testing temperature. The pot life, gel time, and cure time is generally longer for colder temperature applications, and shorter for higher temperature applications. Physical properties are also impacted and dependent upon temperature.

SLIP RESISTANCE:

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Versatile High-Performance Coatings recommend the use of angular slip resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily, or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Versatile High-Performance Coatings or its sales agents will not be responsible for injury incurred in a slip and fall accident

WARRANTY:

Versatile High-Performance Coatings guarantees that this product is free from manufacturing defects and complies with our published specifications. If the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. Versatile High-Performance Coatings (herein referred to as "seller") makes no warranty, expressed or implied, regarding the use of its products. Since use of this product is beyond the seller's control, the buyer assumes all risk of use. Seller's obligation shall be to replace material if found defective. Seller shall not be liable for any damage, injury, loss, direct or consequential, resulting from the use of its products. End user must determine if substrate is suitable for coating application before installing.

TECHNICAL SERVICES:

Technical services can be obtained by contacting Versatile High-Performance Coatings directly at 214-807-6878.