

PRODUCT DESCRIPTION:

Quartz is exceptionally resilient to harsh chemicals and UV rays, providing optimal durability and performance in the most demanding environments. Quartz can be applied to achieve many different textures and minimize slip and fall injuries.

APPLICATIONS:

- Commercial Floors
- Industrial Floors
- Exterior Surfaces

ADVANTAGES:

- Excellent abrasion & chemical resistance
- Perfect for heavy-duty environments
- Outstanding slip-resistance qualities

LIMITATIONS:

- Will not bridge cracking
- Quartz should be stored in an airtight polybag in a dry environment at room temperature to avoid moisture, humidity, and product damage
- Each batch will have variances. Recommend pre-boxing different batches together prior to installation

SYSTEM COMPOSITION:

PRIMER	4100	2A:1B	180 FT ² / GAL
QUARTZ	40-S BLENDED QUARTZ		85 FT ² / 50 Lb. Bag
BODY	4800	2A:1B	125 FT ² / GAL
QUARTZ	40-S BLENDED QUARTZ		85 FT ² / 50 Lb. Bag
GROUT	5205	2A:1B	150 FT ² / GAL
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	1/8" Thickness	
SHORE D HARDNESS	ASTM D3363	75-80
TENSILE STRENGTH	ASTM D638	6,700 PSI
FLEXURAL STRENGTH	ASTM D790	11,000 PSI
COMPRESSIVE STRENGTH	ASTM D695	9,750 PSI
ADHESION	ACI 503R	450 PSI
ABRASION RESISTANCE	ASTM D4060	2.78 mg Lost
ELONGATION	ASTM D638	5.4%

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

STORAGE:

Store materials indoors between 50°F & 75°F



APPLICATION EQUIPMENT:

Protective Clothing	Roll on Rock Applicator Pack SKU – 7000A
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 8lbs / 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

4100 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 2A:1B ratio)



Mix A & B Components using drill at slow speed for 2 minutes (If using optional accelerators add while mixing)

41 SERIES ACCELERATORS

37-45°F	2 Accelerators/Gal
45-60°F	1-2 Accelerators/Gal



Transfer mix to new mixing vessel



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

4100 & QUARTZ APPLICATION STEPS:

COVERAGE RATES:

4100	180 FT ² / GAL @ 8.9 MILS WET FILM
QUARTZ	85 FT ² / 50 Lb. Bag

APPROXIMATE WORKING TIMES:

35 MINS @ 75°F

1 ACCELERATOR/ GAL	2 ACCELERATORS/GAL
25 MINS @ 75°F	15 MINS @ 75°F



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



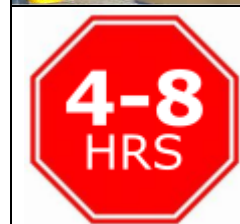
Begin spreading with an 8-12 mil notched squeegee or 18" x 3/8" nap roller. Work material evenly keeping a wet edge



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 into wet material immediately.



Quartz should be broadcasted to rejection into wet material. If you notice any shiny or wet areas then broadcast more Quartz.



Allow system to dry typically standard 6-8 hours at 75°F

ACCELERATED dry time 4-6 hours at 75°F



After coating is dry, reclaim loose quartz using push broom and vacuum all residual quartz from surface.

4800 MIXING STEPS:



Premix A-Component with drill at slow speed for 30 seconds to thoroughly blend pigment (if using pigmented product).



Pour pre-mixed A-Component and B-Component into a clean 5-gallon bucket (If mixing bulk kit be sure to follow specified 2A:1B ratio)



Mix A & B Components using drill at slow speed for 2 minutes (if using optional 48 series accelerators add while mixing the A&B components)

48 SERIES ACCELERATORS

37-45°F	2 Accelerators/Gal
45-60°F	1-2 Accelerators/Gal



Transfer mix to new mixing vessel



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

APPROXIMATE WORKING TIMES:

30 MINS @ 75°F

1 ACCELERATOR/ GAL

2 ACCELERATORS/GAL

25 MINS @ 75°F

15 MINS @ 75°F



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 into wet material immediately.



Quartz should be broadcasted to rejection into wet material. If you notice any shiny or wet areas then broadcast more Quartz.



Allow system to dry typically standard 9-12 hours at 75°F

ACCELERATED dry time 5-8 hours at 75°F



After coating is dry, reclaim loose quartz using push broom and vacuum all residual quartz from surface.

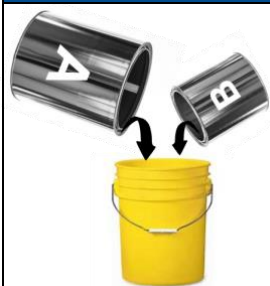
4800 & QUARTZ APPLICATION STEPS:

COVERAGE RATES:

4100 125 FT² / GAL @ 12.8 MILS WET FILM

QUARTZ 85 FT² / 50 Lb. Bag

5205 MIXING STEPS:



Add A component and B component at the specified 2A:1B ratio in to clean 5-gallon bucket



Mix A&B Components for 2 minutes



Transfer mix into a new mixing vessel



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

5205 APPLICATION STEPS:

150 FT² / GAL @ 10.7 MILS WET FILM

APPROXIMATE WORKING TIMES:
20 MINS @ 75°F



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



Begin spreading with an 5-7 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 1 hour at 75°F.
Be sure to apply secondary topcoat within 1 hr of product tacking off or sanding will be necessary.

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

	<p>Transfer mix to new mixing vessel</p>
	<p>Continue to mix for an additional 30 seconds to ensure components are thoroughly blended.</p>

5085 APPLICATION STEPS:

150 FT² / GAL @ 10.7 MILS WET FILM

APPROXIMATE WORKING TIMES:
55 MINS @ 75°F

	<p>Pour a band of mixed material out onto the floor roughly 6-8" wide</p>
	<p>Begin spreading with an 8-12 mil notched squeegee or Magic Trowel. Work material evenly keeping a wet edge</p>
	<p>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.</p>
	<p>Allow system to dry typically 3-6 hours at 75°F Slow-Dry (SD) Version is dry 5-8 hours at 75°F</p>

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.

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.