

PRODUCT DESCRIPTION:

Versatile's 1007 Solid-X Urethane Cement High Build (HB) is a seamless 1/4" 100% solids cementitious urethane system that provides a tough, high-build underlayment. It is a combination of 100% urethane blended with proprietary aggregates. It is applied at 3/16" and broadcast with clear quartz, resulting in 1/4" total thickness. This system is suitable for industrial environments requiring durability and thermal shock resistance. Solid-X Urethane Cement finishes include solid color, quartz, flake, etc.

APPLICATIONS:

- Commercial Floors
- Industrial Floors

ADVANTAGES:

- 100% Solids & 0g/L VOC
- Low Odor
- High-Build
- Durable
- Self-Leveling
- Withstands 15 lbs of MVE

LIMITATIONS:

- Urethane Cement PT used as a primer may be required on overly porous surfaces to prevent pinholes.

COLORS:

Natural	Red
Light Grey	Medium Grey
Dark Grey	

COVERAGE RATES:

1/4" THICKNESS 25-30 ft²/KIT

PACKAGING:

2 GAL KIT (1A:1B:1C) 40 LBS AGGREGATE

TECHNICAL PROPERTIES:

VOLUMETRIC SOLIDS	100%	
VOC	0 g/L	
POT LIFE (1.5 GAL MASS)	8 Mins @ 75°F	
WORKING TIME	25-30 Mins @ 75°F	
DRY TO TOUCH	7-9 Hours @ 75°F	
FULL CURE	20 Days	
SHORE D HARDNESS	ASTM D3363	75-80
TENSILE STRENGTH	ASTM D638	1,800 PSI
COMPRESSIVE STRENGTH	ASTM D695	5,500 PSI
FLEXURAL STRENGTH	ASTM D790	4,800 PSI
IMPACT RESISTANCE	ASTM D2794	PASS
ADHESION	ACI 503R	480 PSI
ABRASION RESISTANCE	ASTM D4060	25 mg
FLAMMABILITY	SELF-EXTINGUISHING	

CHEMICAL RESISTANCE:

ACETONE	NO EFFECT
XYLENE	NO EFFECT
10% HCL	NO EFFECT
AMMONIA	NO EFFECT
DEGREASER	NO EFFECT
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

SHELF LIFE:

6 months from date of manufacture

APPLICATION EQUIPMENT:

Protective Clothing	18" Roller Frame SKU - 7012
Mortar Mixing Paddle	9"-18" Spike Roller Cover
Slow Speed Drill	3/16" Gauge Rake
Spike Shoes SKU - 7045-D	

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 3 & 5
MOISTURE:	Substrate shall have Moisture Vapor Emission Rate (MVER) of 15lbs / 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 by shot blaster to produce a Concrete Surface Profile (CSP) level between #3 & #5 according to the (ICRI) Guideline No. 03732.

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

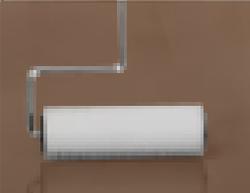
Working times are affected by environmental conditions. High humidity/low temperatures can cause haziness and blushing in the coating. Large masses of mixed and/or heated material will have a shorter pot life.

HOT WEATHER TIPS: Keep material core temps between 50-75°F. In elevated temps, consider icing buckets to reduce product temps.

COLD WEATHER TIP: Use a pail warmer hours prior to job will increase product core temp.

1007 MIXING STEPS:	
	Pour A-Components and B-Components at mix ratio of 1A:1B into a clean 5-gallon metal bucket.
	Mix A & B Components using drill at slow speed for 1 minute (if using optional pigment pack to pigment urethane cement add 8 oz of pigment to 2 gal mix.
	Add 40 lb aggregate to the 2-gal mix while mixing.
	Continue to mix using a paddle drill and mortar mixing paddle for an additional 3 minutes or until components are thoroughly blended.

APPLICATION STEPS:	
COVERAGE RATES:	
3/16" THICKNESS	25-30 ft ² / Kit
Coverage rates will vary depending on concrete flatness	

APPROXIMATE WORKING TIMES: 25-30 MINS @ 75°F	
	Pour a band of mixed material out onto the floor roughly 6-8" wide.
	Begin spreading with a gauge rake set to 3/16". Work material evenly keeping a wet edge.
	Using a spiked roller, back roll the surface to eliminate air entrapment.
	Broadcast clear 40-s grade Quartz to rejection into wet material in roughly 15-30 mins leaving no shiny or wet areas visible.
	Allow system to dry typically 7-9 hours at 75°F.
	Once dry, reclaim loose broadcast material and pigmented topcoat can be applied to coating.

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 1007 to minimum of 3/16" 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.