#### **5350 CHEMICAL RESISTANT URETHANE**

Technical Install Guide



#### **PRODUCT DESCRIPTION:**

5350 Chemical-Resistant Urethane (CRU) Floor Coating is a durable two-component coating designed for industrial concrete floors. Formulated with less than 50 g/L VOC, 5350 CRU provides excellent chemical resistance, superior cleanability, and a high-quality appearance. This versatile coating is ideal for various industrial environments, including warehouses, manufacturing facilities, food processing plants, automotive workshops, laboratories, and distribution centers.

5350 offers robust protection for concrete floors and floor coatings, making it suitable as a smooth, high-quality topcoat over most systems or as a standalone floor coating for flatwork applications.

#### **APPLICATIONS:**

- Residential Floors
- Commercial Floors
- Industrial Floors
- Exterior Applications

#### **ADVANTAGES:**

- High Gloss
- Low viscosity
- Non-Yellowing
- Great Resistance to most Chemicals
- SCAQMD Compliant

#### **LIMITATIONS:**

- Requires Moisture Vapor Primer for on-grade slabs with MVE of 3 Lbs or higher.
- Will not bridge cracking
- Products are combustible; all sources of ignition should turned off, and proper ventilation should be used

## COLORS:

CLEAR

COVERAGE RATES:				
OVER SEALED CONCRETE SUBSTRATE				
1 <sup>ST</sup> COAT	300 FT <sup>2</sup> / GAL @ 5.3 MILS WET FILM			
2 <sup>ND</sup> COAT	350 FT <sup>2</sup> / GAL @ 4.6 MILS WET FILM			
OVER FLAKE SYSTEM				
1/4" FLAKE		1/8" FLAKE	1/16" FLAKE	
250 FT <sup>2</sup> / GAL		200 FT <sup>2</sup> / GAL	200 FT <sup>2</sup> / GAL	

TECHNICAL PROPERTIES:		
VOLUMETRIC MIX RATIO	2A:1B	
VOLUMETRIC SOLIDS	64%	
VOC	<50 g/L	
POTLIFE (1.5 GAL MASS)	55 ± Mins @ 75°F	
WORKING TIME	20 Mins @ 75°F	
DRY TO TOUCH	1-2 Hours @ 75°F	
RECOAT WINDOW	2-4 Hours	
FULL CURE	5-7 Days	
SHORE D HARDNESS	ASTM D3363	2H-3H
ABRASION RESISTANCE	ASTM D4060	2 mg Lost
ADHESION	ACI 503R	300 PSI
FLAMMABILITY	COMBUSTIBLE	

CHEMICAL RESISTANCE:	
ACETONE	NO EFFECT
XYLENE	NO EFFECT
10% HCL	NO EFFECT
AMMONIA	NO EFFECT
DEGREASER	FAINT SPOTTING
LIQUID PLUMBER	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

PACKAGING:	
1.5 Gallon Kit	15 Gallon Kit

#### **STORAGE:**

Store materials indoors between 50°F & 75°F

#### **SHELF LIFE:**

One year from the date of manufacture.

APPLICATION EQUIPMENT:		
Protective Clothing	18" Roller Frame	
Jiffy Mixing Paddle	18"x3/8" Nap Roller Cover	
Slow Speed Drill	8-12 mil Notched Squeegee	



Technical Install Guide



Spike Shoes Magic Trowel

SUBSTRATE REQUIREMENTS:	
	Concrete must be structurally sound
CONCRETE:	and free of all dirt, debris, and
	contaminants.
	Concrete shall be porous and have a
PROFILE:	Concrete Surface Profile (CSP) level
	between 2 & 4
	The substrate shall have a Moisture
MOISTURE:	Vapor Emission Rate (MVER) of 3lbs /
	1000 ft <sup>2</sup> / 24 hr. or less.
	Ambient and substrate temps must
TEMPERATURE:	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 (Moisture Test) (Moisture Test) 1 test/1000 ft2 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 heated material will have a shorter pot life.

Keep material core temperatures between 50-75°F. In elevated temperatures, consider icing buckets to reduce product temperatures, and in cold climates, use pail warmers.

#### **5350 MIXING STEPS:**



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



Mix A&B Components for 2 minutes.



**Transfer the mix** into a new mixing vessel



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

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# 5350 APPLICATION STEPS: COVERAGE RATES OVER CONCRETE SUBSTRATE: 1<sup>ST</sup> COAT 300 FT<sup>2</sup> / GAL @ 5.3 MILS WET FILM 2<sup>ND</sup> COAT 350 FT<sup>2</sup> / GAL @ 4.6 MILS WET FILM OVER FLAKE SYSTEM 1/4" FLAKE 1/8" FLAKE 250 FT<sup>2</sup> / GAL 225 FT<sup>2</sup> / GAL 200 FT<sup>2</sup> / GAL

### APPROXIMATE WORKING TIMES: 20 MINS @ 75°F



**Pour a band** of mixed material 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 rolling perpendicular to your first application direction.



**Allow system to dry** typically 1-2 hour at 75°F.

#### **CLEAN-UP:**

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

#### **MAINTENANCE:**

Maintain 5350 to a minimum of 4 mils dry film.

#### **DISCLAIMER:**

All information provided in this technical data sheet is based on laboratory data. The customer is responsible for testing 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 the product is used at temperatures different from the testing temperature. The pot life, gel time, and cure time are 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 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 recommends using angular slip-resistant aggregate in all coatings or flooring systems 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.