

5375 CHEMICAL-RESISTANT URETHANE (CRU)

5375 Chemical-Resistant Urethane (CRU) Floor Coating is a durable, two-component coating engineered for industrial concrete floors. It delivers excellent chemical resistance, superior cleanability, and a high-quality finish. Ideal for a wide range of commercial and industrial environments, 5375 is well-suited for commercial kitchens, warehouses, manufacturing facilities, food processing plants, automotive workshops, laboratories, and distribution centers. 5375 is also compatible with our High Traffic additive for enhanced floor durability.

TECHNICAL PROPERTIES	
Mix Ratio	2A:1B : (Optional C)
VOC	<50 g/L
Pot Life (75°F, 1 Gal)	60 Minutes
Working Time	45 Minutes
Application Temp	50-85°F
Application Humidity	<65%
Dry to Touch	1-2 Hours
Recoat Window	6-12 Hours
Full Cure	5-7 Days
Clean-up	Acetone, MEK
Kit Sizes	1.5 Gal, 15 Gal

SUBSTRATE REQUIREMENTS

Concrete

5375 CRU is intended as a topcoat over a flooring system or over a direct to concrete primer and is not designed for direct to concrete applications. When applying CRU on top of existing coatings with or without aggregate, ensure that previous coating is clean, dry, soundly secured to the substrate, and free of any dust or other contaminants.

COVERAGE RATES

Over Smooth	
1 st Coat	250 FT ² / GAL
2 nd Coat	300 FT ² / GAL
Over Flake	
1/4" Flake	175 FT ² / GAL
1/8" Flake	150 FT ² / GAL
1/16" Flake	150 FT ² / GAL

Moisture

Substrate shall have Moisture Vapor Emission Rate (MVER) of 3lbs / 1000 FT² / 24 hr. or less as tested by a 72-hour Calcium Chloride test. For high MVT substrates, consult with a Versatile representative for recommendations.

Temperature

Ambient and substrate temps must be above 35°F and Relative Humidity should not exceed 65% during the installation of the coating.

Dew Point

Do not apply when dew point is within 5°F of the ambient temperature

Other Substrates

Consult with a Versatile representative for recommendations over other substrates.

ADVICE BEFORE INSTALLATION

Mixing

5375 is a 2-component product, be sure to mix thoroughly before the application. Cure times will be affected by environmental conditions. Do not force dry. High humidity and/or low temperatures can cause haziness and blushing in the coating. Large masses of mixed and/or heated material will have a shorter pot-life. If you are not familiar with the product, Do Not Mix more than 1 kit at a time. The more you mix, the shorter your pot-life (working time) will be.

Hot Weather Tips

5375 has a shorter pot-life in very hot conditions. Keep the material core temperature around 50-75°F if possible. Icing the buckets hours before doing job or placing in a cool environment the day before application can help by lowering the core temperature.

Cold Weather Tips

The colder the temperature, the longer the dry and cure time will be extended. This product may have higher viscosity or may gel up in very cold conditions. Keep the material core temperature around 50-75°F if possible.

INSTALLATION STEPS

1. PREPARATION

Surface Preparation

There are many methods of surface preparation for various substrates, many of which are adequate for this application. Consult a Versatile Representative for alternatives to the procedure outlined below, and methods of correcting problematic and contaminated substrates.

5375 is a urethane topcoat, when applying over another resinous product, check the recoat window for the substrate product, taking into consideration the jobsite temperature and humidity. Due to the porous nature of concrete, priming is required for the application of 5375.

If previous resinous coating is OUTSIDE of the recoat window, de-gloss the surface using an 80 or 100 mesh screen on a floor maintenance machine. After de-glossing fully, vacuum surface and then follow with a solvent wipe using a clean microfiber mop.

Jobsite Preparation

- Shut off all sources of ignition prior to work, and throughout the coating process.
- Supply auxiliary ventilation as necessary to produce a safe working environment.
- Use a NIOSH approved respirator capable of filtering organic vapors (OV).
- Always wear protective clothing, gloves, and equipment as required by OSHA and as necessary.

APPLICATION EQUIPMENT

Protective Clothing	18" Roller Frame SKU - 7012
Jiffy Mixing Paddle SKU - 7050	18"x3/8" Nap Roller Cover SKU - 7006-1
Slow Speed Drill	Squeegee
Spike Shoes SKU - 7045-D	3" Chip Brush SKU - 7001

2. MIXING

- Material should be kept at room temperature (50-75 °F)
- Use a jiffy-type mixing blade at a minimum of 400 rpm
- In a clean mixing bucket, pour the 5375 A component.. If pigmenting 5375, add the Universal Pigment with the A component and mix until a uniform color is seen. If using the Optional High Wear Additive, slowly add part C powder and mix for 1-2 minutes until thoroughly blended and broken up. Add 5375 Part B and mix for an additional 2-3 minutes at low speed. Do not mix more than 1 kit at a time.
- Do not entrain air into the mix. Do not mix more than can be applied in 20-30 minutes. When applying, do not turn the mixing bucket upside down on the substrate, as it may introduce unmixed or under catalyzed material to the floor.
- 5375 has a pot-life of up to 60 minutes, this is based on 1-gal mass at 75° F.
- For increased slip-resistance, anti-slip additive Rhino Tooth can be added. The Optional Part C powder should not be considered traction, as it is too fine and will settle down in the coating.

3. APPLICATION (Squeegee Method)

- Work only as much product as you can handle properly while keeping a wet edge.
- Begin by cutting-in the concrete footings (Stem Walls) and around the edges with a 3"-4" chip brush or 6" weenie roller. Material applied to vertical surfaces such as cove or stem walls will cause material to run, thus forming a puddle.
- Do not work edges more than 5-10 minutes ahead of the main body of the floor. Keep a wet edge.
- Over flake, use a magic trowel or flat blade squeegee to spread the 5375 for a more even application. Over smooth, us a 5-7 mil squeegee without putting pressure on the squeegee to keep your spread rate at the 7 mil range. Work the material evenly keeping a wet edge incorporating both the cut-ins and the main work area. Continually stir wet material when using the optional Part C additive.
- Work the material evenly to a wet film thickness of 5-7 mils (229-321 FT²/ gal).
- Cross Roll the surface evenly in the opposite direction to eliminate roller lines within 5-10 min after applying to help ensure full coverage and uniform thickness.

4. APPLICATION (Dip and Roll Method)

- Work only as much product as you can handle properly while keeping a wet edge.
- Begin by cutting-in the concrete footings (Stem Walls) and around the edges with a 3"-4" chip brush or 6" weenie roller.
- Do not work edges more than 5-10 minutes ahead of the main body of the floor. Keep a wet edge.
- Pour mixed material into a clean or lined roller tray and apply coating with a 3/8" nap roller. Continually stir wet material when using the optional Part C additive.
- Dip the roller in the roller tray, coating the roller cover and lightly roll out excess material. Spread the material evenly.
- Cross Roll the surface evenly in the opposite direction to eliminate roller lines within 5-10 min after applying to help ensure full coverage and uniform thickness. Use control joints or natural breaks as start and stop points between mixes if pauses in application are needed.
- Occasionally, use the roller to remix the material in the roller tray
- If material has begun to tack up, do not back roll. Back rolling at this point could result in an orange peel texture or that introduction of air bubbles to the topcoat that may not dissipate.



CLEAN-UP

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

ADDITIONAL CAUTIONS AND RECOMMENDATIONS

- Do not allow material to puddle. Any areas of thicker material may remain cloudy.
- Mask all areas that need protection.
- Do not force dry.
- Store material at 50-75°F
- Always wear protective clothing, gloves and equipment as required by OSHA and as necessary.
- Turn off all sources of ignition and follow safety guidelines listed in product sections.
- Please Read Material Safety Data Sheets and Installation Guides before commencing work.

SLIP RESISTANCE

Slip resistance of a finished surface is influenced by multiple factors, including surface texture, aggregate selection, application method, environmental conditions (wet or dry), and ongoing maintenance. Versatile sells slip-resistant additives and recommends using angular slip-resistant aggregate in all coatings or flooring systems exposed to wet, oily, or greasy conditions. It is the contractor's professional responsibility to evaluate the installation environments 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.

TECHNICAL SERVICES

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

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.

DISCLAIMER

All information provided in this Installation Guide 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.

