SIMCRETE CB

PRODUCT DESCRIPTION

SIMIRON SIMCRETE CB is a three-component, urethane cement, cove base that is used in combination with urethane cement flooring to form a heavy-duty system that is extremely durable and withstands thermal shock, impact, abrasive traffic and chemical exposure.

Simcrete CB is formulated with a natural additive to be resistant to fungi growth per the industry standard, ASTM G21.

FEATURES & BENEFITS

- Durable
- Low odor, fast return-to-service
- Thermal Shock, High Temperature resistance
- Steam Cleanable
- Chemical resistant
- Resistant to fungal growth per ASTM G21

RECOMMENDED USES

- Food and Beverage Plants
- Food Prep / Commercial Kitchens
- Meat and Poultry Plants
- Pharmaceutical Facilities
- Chemical Processing
- Pulp and Paper Facilities
- Wet Process & Packaging Areas

PRODUCT INFORMATION

1 mix = 1 qt. Part A + 1 qt. Part B + 1 Bag CB Filler + 1/2 UC Powder Pigment covers 35 Lineal Feet at a height of 4 inches

PHYSICAL DATA	SIZE	ITEM NUMBER
Urethane Cement Part A	0.5-Gallon	40007911
Urethane Cement Part B	0.5-Gallon	40007928
Urethane Cement Part A	5-Gallon	40007935
Urethane Cement Part B	5-Gallon	40007942
Simcrete Urethane Cement Part A	250-Gallon Tote	40008215
Simcrete Urethane Cement Part B	250-Gallon Tote	40008208
CB Filler	28 lb. bag	40008116
UC Powder Pigment Red	1 lb. bag	40008130
UC Powder Pigment Gray	1 lb. bag	40008123
UC Powder Pigment Dark Gray	1 lb. bag	40008222

TECHNICAL DATA

PHYSICAL DATA	
Components	Three
Mix Ratio (by volume)	1 qt. Part A + 1 qt. Part B + 1 Bag Filler + 1/2 Bag Pigment
Pot-Life	15 minutes @ 77° F
Solids by Volume	100%
VOC's	5 g/L
Application Temperature, Ambient	40 to 85°F
Application Temperature, Material	55 to 85°F

THEORETICAL COVERAGE
Coverage is 35 Lineal ft./mix (10.7 m) for a 4 inch high cove.

CURE TIMES	
Light Service	12 hours
Normal Service	24 hours
Full Cure	7 Days

Tested at 72°F and 50% humidity. Cooler temperatures may slow down cure times. Higher temperatures and humidity may speed up cure time

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PHYSICAL PERFORMANCE PROPERTIES

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Bond Strength	ASTM D4541	100% Concrete Failure
Compressive Strength	ASTM C579	8,550 psi
Flammability		Self extinguising over concrete
Flexural Strength	ASTM C580	2,780 psi
Impact Resistance	ASTM D2794	> 160 in./lbs.
Resistance to Fungi Growth	ASTM G21	Passes, Rating of 1
Tensile Strength	ASTM C307	1,120 psi

SURFACE PREPARATION

Concrete, block, or cement board walls must be sound, clean, dry and free of contaminants such as dirt, dust, grease, oil, silicones and other contaminants that may negatively affect adhesion. Scrub area with detergent and rinse clean to remove any contaminants. Remove paint or coatings from the area that will receive cove. Cove should not be applied to other wall types.

CONCRETE / CONCRETE BLOCK:
Diamond grind to a CSP 3 surface profile. Refer to SSPC-SP13/NACE 6 or ICRI Technical Guideline No. 310.2. New concrete must be cured a minimum of 14 days.

CEMENT BOARD:
Sand – Do Not diamond grind cement board.

Vacuum debris from wall and edge of floor where base of cove will sit. Apply duct tape to top of cove strip or wall termination (4" height is standard) to protect cove strip and wall. Apply duct tape on floor approximately 1.5 – 2" from wall to identify area to receive primer and cove base.

SAFETY AND TECHNICAL

Refer to the SDS sheet before use. Safety precautions must be strictly followed during storage, handling, and use. Personal Protective Equipment (PPE) should be worn at all times. PPE will include (but is not limited to): Safety glasses with side shields and high-quality nitrile gloves. To acquire additional information or technical and safety data, please visit: www.simiron.com.

TEMPERATURE

Air	40° – 85°F	4° – 29°C
Surface	40° – 85°F	4° – 29°C
Material	60° – 80°F	16° – 27°C

Do not store material outdoors in a trailer or building that is not heated/air conditioned. Material that is cold will be difficult to work. Material at higher temperatures will have shorter pot-life and working time. Relative humidity must be less than 80%. DO NOT install unless the floor temperature is more than five degrees over the current dew point.

APPLICATION EQUIPMENT

Assemble all required application equipment. Equipment will include (but is not limited to):

- Tape measure, ruler, and marker to measure and mark proper cove height.
- Chalk line to mark height of cove base to be installed. Some floors may require a string level if floor is pitched, and customer desires a level cove base that does not follow the floor slope. In this case, the height of the cove will vary with the pitch or slope of the floor.
- Cove strip (plastic or metal Schlueter strip) if specified.
- Duct tape to protect wall or cove strip at cove termination point.
- Measuring and mixing buckets, paint brushes, and 4" roller frames and covers.
- Drill and Jiffy Mixer blade and/or mortar mixer.
- Flat stainless steel trowels, radius cove trowels, margin trowels, and assorted concrete finishing tools (corner tools etc.).
- Acetone for clean-up and trowel lubrication.

APPLICATION PROCEDURE

Installation of cove base may be performed before or after placement of a Simcrete flooring system.

Primer: 1000HS primer must be applied prior to **Simcrete CB** for the cove to hang on the wall. Prime wall area using a small roller and/or brush. Primer may require multiple coats on porous surfaces. Fumed silica may be used to thicken primer if desired.

Do not install cove base to an unprimed wall or a primer that has soaked into the wall. Use caution not to apply the primer too thick, as primer may sag and puddle at base of wall. Roll out or remove any areas of excess primer.

Mix Cove:

1. Pour 1 quart (.25 gallons) of Simcrete Part A liquids into a measuring container.
2. If pigmenting, add 1/2 **UC Pigment Powder** Bag to the Part A and mix for 15 seconds.
3. Add 1 quart (.25 gallons) of Simcrete Part B liquids to the Simcrete Part A and mix for 15 seconds.
4. Transfer mixed material into a clean mixing bucket or mortar mixer and add the Simcrete Part C. Mix until the material is completely wet and uniform (1-2 minutes).

Install Cove:

1. Pour the mixed material in a straight line along the base of the wall to receive the cove.
2. Using a flat trowel or margin trowel, scrape the material up the wall @ approximately 1/8"-3/16" thickness, taking care not to apply too thick (especially at the base of the cove). If the material is too thick, it will be more difficult to trowel.
3. Once area is sufficiently covered, compact and finish area with cove trowel leaving a 3/16"-1/4" terminating edge on the floor.
4. Acetone can be used to lubricate and clean trowels if they get sticky during application.
5. Remove tape from top of cove and floor, and lightly brush top edge and rough areas of cove with acetone to remove imperfections.
6. Snap a chalk line, cut and scrape excess mortar to achieve a clean transition edge where flooring system will meet the cove base 1.5"-2" from the base of the wall.
7. Scrape loose material from floor and clean-up work area.

CLEAN UP & DISPOSAL

Clean up mixing and application equipment immediately after use. Use toluene, acetone or xylene; do not use alcohol. Follow solvent manufacturer's safety instructions. Be sure to follow all local, state and federal regulations when disposing of materials.

MAINTENANCE

To maintain the appearance for long-term performance and life expectancy of the newly sealed surface it is imperative to continue routine maintenance program. Each sealer type, traffic and other conditions require a certain routine maintenance program. To increase the life of the floor use inside and outside walk-off mats. Some cleaning products and equipment or improper use of products can damage a wear surface appearance over time. Reapplication may be necessary in heavy traffic areas with greater frequency. Periodic light applications are recommended to maintain gloss and protection.

LIMITATIONS

- Do not apply over loose or unsound concrete, asphalt or bitumen substrates, glazed tile or nonporous brick and tile, magnesite, copper, metal, polyesters, or elastomeric membranes.
- Do not install on drywall walls or FRP.
- Do not apply at a temperature below 40°F (4.4°C) or above 85°F (29°C).
- Do not use material that has been frozen.
- Do not split bags of Part C filler.
- Moving walls and cracks may reflect through system. Joints that are designed to move may reflect through the finished flooring system if they are not honored.
- Material is not UV stable and will discolor unless topcoated with a coating system that is UV resistant.

SHELF LIFE AND STORAGE

12 months from date of manufacture when stored indoors in the original unopened container at 60°F – 85°F (16°C – 29°C) in a dry location with humidity below 65%

⚠ Do not allow materials to freeze.

TECHNICAL ASSISTANCE

Information is available by calling SIMIRON
Toll Free: **1.866.515.8775 / +1.248.686.3600**

LIMITED WARRANTY

SIMIRON warrants this product to be free from defect in the material that affects its performance for a period of one year (from date of purchase). SIMIRON will replace at no charge the quantity of the Coating that SIMIRON determines has failed to perform, as the sole and exclusive remedy for any breach of this warranty and/or any other defect or failure of the coating. Proof of purchase is required. Cost of labor for application of any product specifically is excluded. Warranty is void if Simiron products are mixed with or used in conjunction with materials that are substituted for Simiron products. Warranty is nontransferable.

SIMIRON™

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PRODUCT DATA SHEET: 06/17/2026

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