BIO-CEM™ COVE BASE

URETHANE CEMENT COVE BASE MATERIAL

TECHNICAL DATA SHEET



Bio-Cem™ Cove Base is a trowel-applied, heavy-duty cove system designed to integrate seamlessly with Bio-Cem™ Urethane Cement Flooring Systems. Engineered for vertical application, it can be formed to a smooth radius cove at the desired height, ensuring a durable and hygienic transition between floors and walls.

This eco-conscious formulation features plant-based raw materials, a low-odor profile, and minimal VOC content, making it ideal for sensitive installation environments.

USES:

- Commercial kitchens
- Breweries
- Industrial manufacturing
- Pharmaceutical facilities
- Food/Beverage manufacturing
- Anti-Slip flooring (meets ADA recommendations)

ADVANTAGES:

- Thermal shock resistant
- High impact & abrasion resistance
- Fast return to service
- Seamless, hygienic finish
- MVER resistant
- Low-VOC, low odor

PACKAGING & SHELF-LIFE

140 linear ft. kit @ 4" high, 3/16" thick

- 1-gal part A
- 1-gal part B
- Four 29.5 lb. Cove Base (CB) filler bags
- Powder pigment (optional)

Shelf-Life::

- 6-months factory sealed and stored at room temperature.

SUGGESTED APPLICATION:

- Apply at thickness of 3/16" and trowel vertically
- See page two for detailed application instructions

ANCILLARY PRODUCTS:

- Bio-Cem™ Cove Base should be top-coated with either Bio-Cem TC or other Resinwerks™ top-coat system.

MATERIAL COVERAGE

HEIGHT	DRY FILM THICKNESS	APPROXIMATE COVERAGE
4"	3/16"	140 Linear ft / kit
6"	3/16"	104 Linear ft / kit
8"	3/16"	70 Linear ft / kit

GENERAL PRODUCT INFORMATION

Colors:	tan, green, red, med grey, drk grey, black
V.O.C.:	5 g/L
Pot-life:	15-20 Minutes @ 72° F
Mix-Ratio:	Mix Full Kit
Cure Schedule:	72° F @ 50% R.H.
	To re-coat: 2-3 Hours Minimum, 24-Hours Maximum
	Light Traffic: 6-8-Hours
	Heavy Traffic: 24-Hours
Clean-up:	Acetone / MEK
Application Temp:	40°F(4.4°C) - 85°F(29.4°C)
Environment:	For Interior Use Only

GENERAL PRODUCT PERFORMANCE

TEST TYPE	TEST METHOD	RESULT
Service Temperature		-50°F - 200°F
Tensile Strength	ASTM C-307	1,000 psi
Flammability	ASTM D 635	Self extinguishing
Impact Resistance	ASTM D 4226	> 160 lb
Compressive Strength	ASTMC579	5,750 PSI
Flexural Strength	ASTM C-580	1,800 PSI
Adhesion	ASTMD-4541	500+ PSI concrete fracture
Coefficient of Friction	ASTM-D 2047	>0.6 / pass
Resistance to Fungi Growth	ASTM G-21	1-pass

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SURFACE PREPARATION

Ensure substrate to be coated is clean, dry, and in sound condition. All laitance, curing compounds, concrete hardeners, and other surface contaminants must be removed. Concrete must have a minimum surface tensile strength of 300 PSI per ASTM D-4541. Prepare concrete in accordance with ASTM D 4259-83. Mechanical shot blasting or grinding is recommended to achieve a surface profile of ICRI CSP 3-5. Surface to be coated must be completely porous and free of excessive dust & contaminants.

NEW CONCRETE

MonoFloor Slurry can be installed on new concrete greater than 7-days old provided it has reached a minimum of 3,500 PSI to allow for proper surface preparation. Shrinkage or cracking in new slabs may telegraph through final finish.

DE-GREASING OF CONTAMINATED SUBSTRATES

Bio-Cem™ polyurethane concrete should not be applied over contaminated surfaces. All dust and remaining contaminants should be completely removed prior to coating.

TREATMENT OF JOINTS & CRACKS

Prior to installation of Bio-Cem urethane concrete, all joints, cracks and other substrate irregularities must be addressed and prepared prior to application. Keyways must be cut at all terminations, joints and drains to a minimum width and depth of 5/16". This is critical to prevent future delaminations. For more information, please consult resinwerks technical construction drawings.

MIXING INSTRUCTIONS: PROFESSIONAL USE ONLY

- Prior to mixing, all products should be properly acclimated to the local ambient room temperature of 40°F(4.4°C) - 85°F(29.4°C)
- A corded industrial drill with mortar mixing paddle should be used with a large bucket or hippo mixer. (7-gal minimum)
- Pour 1/4-gal A into a 5-gallon mixing pail.
- Add pigment and mix for 15-seconds with a slow speed mixing drill
- Add 1/4-gallon Part B and mix for an additional 15-seconds
- Slowly add entire contents of 29.5 lb bag of Cove Base filler to mix. Mix for approximately 1-minute until mixture is clump free and materials are properly wetted out.

APPLICATION INSTRUCTIONS

- Prime vertical surface with resin primer and sand broadcast prior to cove application.
- Immediately following mixing, apply mixed material up wall with hand trowel.
- Roll surface with mohair roller or similar tool to remove trowel marks.
- Combine any excess material to form a small sanding stone. Once cured, sanding stone may be used to remove any imperfections.

LIMITATIONS

- Do not apply over existing coatings / sealers
- Do not apply to concrete < 3500 PSI compression strength
- This product is not recommended for immersion service.
- Product is not color stable and should be top-coated
- Do not install on wet concrete
- Moisture vapor emission should be a maximum of 90% relative humidity as per ASTM F2170 or ASTM F2420 or 12 lbs over 1000 SF area for 24 hours as confirmed through a calcium chloride test (ASTME-1907)
- Do not apply this product at ambient or floor temperatures below 40°F or over 85°F or if the relative ambient humidity is above 90%.

MAINTENANCE

The long-term performance, appearance, and life expectancy of wear surface products are dependent on an adequate routine maintenance program designed specifically for the installed wear surface. Resinous floor coating systems are nonporous, causing dirt and contaminants to remain on the surface. Recommended maintenance programs consist of frequent and thorough cleaning utilizing a neutral PH cleaner. The frequency of washing will vary depending on floor usage type, traffic and age. Please contact your local Resinwerks technical representative for more information.

NOTES

Thoroughly read all Material Safety Data Sheets prior to use and maintain copies on job-site at all times.

Mock-ups and field test areas are strongly recommended in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the coating system.

Variability in job site conditions (including but not limited to surface preparation, sunlight, humidity, dew point, temperature, etc.) during application of Urethane products may lead to fish-eyes, blistering, pinholes, wrinkling, or out-gassing of air in the concrete and are not product defects.

TECHNICAL ASSISTANCE

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RESINWERKS™ FLOOR COATING SYSTEMS