



Roll-Cote™

HIGH-PERFORMANCE MOISTURE-VAPOR-MEMBRANE AND PRIMER

TECHNICAL DATA SHEET 07/23/2024

SMART ADVANTAGES

- One component
- Rapid drying
- Low-VOC, low-odor, water-based formulation

DESCRIPTION

Bostik Roll-Cote™ High-Performance Moisture-Vapor-Membrane and Primer is a water-based, one-component system formulated to reduce substrate moisture-vapor emissions, prime floors prior to the application of underlayments, and block concrete alkalinity. Roll-Cote™ significantly improves return-to-service speed for flooring installation by combining multiple steps into one product. Roll-Cote™ is suitable for use in many environments, is compatible with an assortment of flooring types, and can be used on both concrete and wood substrates. No mixing is required, and its easy-to-apply formulation and fast dry time makes Roll-Cote™ dependable and user-friendly. Roll-Cote™ is durable and low odor, and the black color provides a great visual indication of coverage during the installation process. Note: See Chemical & Physical Properties chart for compatible adhesives.

SUPERIOR MOISTURE PROTECTION

Roll-Cote® has extremely low moisture vapor permeability and is not adversely affected by moisture. As a result, costly and time consuming concrete moisture testing is not required when 1) the slab is properly prepared, dry to the touch, and fully cured, and 2) Roll-Cote® is used in conjunction with an approved Bostik adhesive. Approved Bostik adhesives are identified on the Bostik Limited Warranty that can be found on the Bostik website, www.bostik.com/us.

ULTIMATE VERSATILITY

Roll-Cote™ can be used over properly prepared concrete, wood-based subflooring, plywood, high-performance subflooring panels (e.g., Advantech™), oriented-strand boards (OSB), radiant-heat flooring, and cement-based terrazzo prior to the installation of engineered or solid hardwood flooring, self-leveling underlayments and floor patches, carpet, vinyl/VCT, porcelain, marble, granite, or ceramic tile floor covering.

WHERE TO USE

Interior floors over concrete and wood subfloors.



PRODUCT FEATURES

- Unlimited moisture vapor for glue-down hardwood flooring installations – no testing required!
- Up to 99% RH*
- Premixed and reusable
- No waste
- Blocks alkalinity in concrete
- Versatile—for use on most floating and glue-down flooring types
- No primer or sand broadcast needed for underlayments
- Multipurpose primer, pH blocker, and moisture vapor mitigation in one
- Contains Bostik's Blockade™ Antimicrobial Protection
- Contains RapidCure Technology™
- Excellent coverage
- Low VOCs—CDPH Compliant
- Compatible with most flooring adhesives and cementitious products
- Suitable for green concrete

*See chart on page 2 for additional details.

This supersedes and replaces in its entirety all previously published versions of this document. B165418

MOISTURE VAPOR AND PH PROTECTION

When properly installed, Bostik Roll-Cote™ is designed to reduce the moisture-vapor emission rate of the most challenging concrete slabs, from up to 25 pounds per 1,000 ft² per 24 hours to < 3 lbs. per 1,000 ft² per 24 hours (per ASTM F 1869), or from 99% RH (per ASTM F2170) to 75% RH equivalent. This nonflammable, low-odor, water-based, non-blushing formulation requires no solvent wiping or sand broadcasting, and it has a 3-day application window in which floor covering adhesives must be applied to achieve a strong bond. Bostik Roll-Cote™ is formulated to be effective in blocking the surface alkalinity of concrete slabs, providing a surface pH level of 9 or lower, as recommended by the Carpet and Rug Institute and the Canadian Carpet Institute, making it ideal for bonding with most adhesives.

For hardwood flooring or tile applications on concrete, Roll-Cote™ is rated for unlimited moisture vapor, apply two coats at a total coverage rate of 100 square foot per gallon.

For applications up to 90% RH, or over wood subfloors, apply one coat at 200 square feet per gallon.

For applications up to 99% RH, apply two coats at a total coverage rate of 100 square foot per gallon.

For sheet vinyl flooring applications, PVC-backed carpet tiles, and some resilient flooring adhesives, self-leveling underlayments or floor patches may be required for compatibility and to prevent telegraphing of substrate and surface imperfections. For more information, refer to the chart on page 2 and limitations section, or contact Technical Service.

LEED® CONTRIBUTION

This low-VOC formulation (as calculated per SCAQMD Rule 1113) may contribute toward LEED® credits under Low-Emitting Materials–Coatings. California Department of Public Health (CDPH) Standard Method for VOC Emissions testing is available upon request.

DIRECTIONS FOR USE

Read and understand technical and safety data sheets completely before beginning installation. Follow industry standards and flooring manufacturer's recommendations for design, layout, and application of flooring materials, including test methods, jobsite temperature, and relative humidity. Always do a test area to ensure product satisfaction, including adhesion to substrate, and/or to become familiar with proper application techniques prior to use. Do not apply Roll-Cote™ to surfaces with visible/standing moisture. Slab moisture vapor testing is not required for the application of Roll-Cote™ with Bostik hardwood flooring adhesives.

SURFACE PREPARATION

Please refer to and follow industry standards for flooring material being installed (e.g., NWFA, MFMA, TCNA, NTCA, ICRI, etc.) prior to using this material. Various materials have vastly different substrate preparation and installation requirements; substrate preparation and installation requirements are key to a successful installation regardless of flooring material being installed.

CONCRETE MOISTURE VAPOR TESTING

Concrete moisture vapor testing is not required for the application of Roll-Cote™ with Bostik hardwood flooring adhesives or cementitious products but may be required for resilient flooring applications. If testing of concrete moisture must be performed by the requirements of the flooring system, use either "Anhydrous Calcium Chloride" testing per ASTM F1869, or "In Situ Relative Humidity" testing per ASTM F2170. If water vapor transmission rate is above 25 pounds per 1,000 square feet per 24 hours following ASTM F1869, or if RH is greater than 99% following ASTM F2170, please contact Bostik Technical Service: (800) 726-7845.

CHEMICAL & PHYSICAL PROPERTIES

Use Environments	Residential	Yes	
	Office/Light Commercial	Yes	
	Heavy Commercial	Yes	
	Hospitals	Yes	
	Wet Areas	No*	
	Exterior	No	
Substrates	Concrete	Concrete: Yes	
		Green Concrete ≥ 5-day-old: Yes	
		Cement Terrazzo: Yes	
	Wood	OSB: 1 coat only	
		Plywood: 1 coat only	
		High-performance subflooring panels: 1 coat only	
Flooring Types, Compatibility & Moisture Mitigation	Hardwood	Polyurethane Adhesives: Yes**	Unlimited
		Axios® & MS Polymer Adhesives: Yes	Unlimited
	Bonded LVT/VCT	Yes***	Up to 99% RH
	Floating LVT/VCT	Yes***	Up to 95% RH
	Sheet Vinyl	Yes***	Up to 95% RH
	Carpet	Yes***	Up to 99% RH
	Ceramic Tiles	Yes	Unlimited
	Porcelain, Natural Stone	Yes	Unlimited
	Rubber Flooring	No	--
	Bonded LVT/VCT	Yes***	Up to 95% RH
	Floating LVT/VCT	Yes***	Up to 95% RH
Underlayments	Rubber Underlayments	Yes	Up to 99% RH
	Cementitious SLUs, Patches, and Adhesives	Yes	--
	Gypsum, SLUs, and Patches	Yes	--
Application and Physical Properties	Application Temperature	40°F to 90°F	
		10°C to 32°C	
	Dry Time	1st Coat: 30 minutes	
		2nd Coat: 2 hours	
	Walkable	1st Coat: 30 minutes	
		2nd Coat: 1 hour	
	Water Vapor Permeability	<0.2 Metric Perm. mm	
	ASTM 1869 Calcium Chloride Method	25 lbs. max.	
	ASTM 2170 Relative Humidity Test	99% max.	
	ASTM 1308 KOH 10% Sol. (pH = 14)	No Effect	
	ASTM D7234 Adhesion	>400 PSI	
Coverage	Application	3/8" nap roller	
	Wet Film Thickness (each coat)	8 mil	
	Dry Film Thickness (each coat)	4.1 mil	
	Prime Coat	500-800 ft² / gal (of concentrate)	
Technical Data	One Coat	200 ft² / gal	
	Two Coats	100 ft² / gal	
	Color	Black	
	Odor	Mild	
	Density (lbs/gallon)	9.26	
	Shelf Life	18 months	
Chemical Properties	Freeze/Thaw Stability	Not Stable	
	Storage Temperature	40°F to 95°F	
		5°C to 35°C	
	Chemistry Type	Hybrid	
Chemical Properties	VOC Compliant (calculated per SCAQMD Rule 1113)	Yes (<15 g/L)	
	Flash Point	>200°F (93°C)	

* Requires the use of a Bostik waterproofing and crack-isolation system.

** Bostik's Best™ is not compatible with Roll-Cote™.

*** Self-leveling underlayments or floor patches may be required for compatibility with resilient adhesives and to prevent telegraphing of substrate and surface imperfections. Contact Technical Service for more information.

FOR APPLICATIONS OVER GREEN CONCRETE

Bostik Roll-Cote™ is uniquely formulated so that it may be applied on green concrete at least 5 days old. A calcium chloride test is not necessary prior to the application of Roll-Cote™, but it may be required for the finished floor warranty. A calcium chloride test can be done prior to application of flooring material to confirm the moisture-vapor emission rate is within flooring manufacturer's acceptable rate. This can be done approximately 16–24 hours after application of Bostik Roll-Cote™ at 70°F (21°C). Dry time will vary depending on the temperature of the concrete slab.

MIXING

Roll-Cote™ does not require mixing. If settling has occurred, Roll-Cote™ can be stirred with a trowel or paint stick prior to application.

INSTALLATION

MOISTURE MITIGATION FOR CONCRETE SUBSTRATES: Make sure that concrete substrate and ambient room temperature is between 40°F and 90°F (4°C to 32°C). To achieve proper coverage, protection, and application of material, lay out jobsite into 100 ft² “grids,” or sections. Ensure the material is applied at the required coverage rate by staying within the grid per unit/container. Use a 3/8" nap roller to coat the substrate with Bostik Roll-Cote™. Let the membrane cure a minimum of 30 minutes for the first coat, and 2 hours after the second coat. For required application rate, please refer to the COVERAGE section. The surface of Bostik Roll-Cote™ must be tack free prior to application of floor covering adhesives, primers or patches/underlayments. Roll-Cote™ is ready for adhesives or cementitious preparation products in under 3 hours and can be left uncovered for up to 3 days. After 3 days, an additional application of Roll-Cote™ is necessary.

USING ROLL-COTE™ OVER HIGHLY POROUS CONCRETE SUBSTRATES OR AS A PRIMER: If the concrete absorption per ASTM F3191, results in water absorption in less than 1 minute, a “prime coat” is necessary. Make sure the concrete substrate and ambient room temperature is between 40°F and 90°F (4°C to 32°C). In a larger pail, create a prime coat by mixing 1 part water to 1 part Roll-Cote™ thoroughly by hand until a fluid consistency is created. To achieve proper coverage of material, use a 3/8" nap roller or exploded-tip broom to coat the substrate with Bostik Roll-Cote™. For the application with a prime coat, allow to cure for a minimum of 30 minutes prior to additional applications of Roll-Cote™ and 1 hour before applying a self-leveling underlayment or floor patch. For porous concrete substrate applications, allow to cure for a minimum of 30 minutes for the prime coat, and then 1 hour for the first neat coat, and 2 hours for the second neat coat. The number of neat coats will depend on the requirements of the finished floor and moisture levels in the concrete. Roll-Cote™ can be left uncovered for up to 3 days. After 3 days, an additional, properly diluted application of Roll-Cote™ is necessary.

Depending on the requirements of the finished flooring material, two additional coats of Roll-Cote™ may be necessary after the concrete has been prepared. If settling has occurred after mixing, Roll-Cote™ can be stirred with a trowel or paint stick prior to application.

If settling occurs after mixing, Roll-Cote™ can be stirred with a trowel or paint stick, but the mixture will need to be used immediately and not stored.

VAPOR RETARDER FOR WOOD AND OSB SUBSTRATES (Moisture Vapor Retarder in 1 coat): Make sure that wood and OSB substrates and ambient room temperature is between 40°F and 90°F (4°C to 32°C). If Roll-Cote™ is being used prior to the application of wood flooring as a full-spread glue application, nail assist, or nail down, ensure the building's climate controls are commissioned and that NWFA guidelines are followed. To achieve proper coverage, protection, and application of material, lay out jobsite into 200 ft² “grids,” or sections, in one coat. Ensure the material is applied at the required coverage rate by staying within the grid per unit/container. Use a short 3/8" nap roller to coat the substrate with Bostik Roll-Cote™. Let the membrane cure a minimum of 30 minutes. For required application rate, please refer to the COVERAGE section. The

surface of Bostik Roll-Cote™ must be tack free prior to application of floor covering adhesives, primers, or patches/underlayments. Roll-Cote™ is ready for adhesives or cementitious preparation products in under 3 hours and can be left uncovered for up to 3 days. Nail down, glue assist, and floating floors require just 30 minutes of cure time at a rate of 200 ft² per gallon prior to beginning installation with properly acclimated materials. When applying as a vapor retarder over wood and OSB substrates, do not apply a second layer if the Roll-Cote™ has been exposed for greater than 3 days; instead, damp-tack the floor with water.

FOR CRACK/JOINT TREATMENT

For “non-dynamic” cracks/joints (cracks with no movement): Remove any existing sealant or debris. Treat all non-dynamic joints with Bostik Roll-Cote™ by applying a layer into the joint with a paintbrush to completely coat the walls of the cavity. Once cured, fill the crack/joint with a cement-based patch material (e.g., Bostik UltraFinish™ Pro, Webcrete 95®, Bostik Webcrete 98®).

FOR “DYNAMIC” JOINTS/CRACKS WITH MOVEMENT

Remove any existing sealant or debris. Treat all dynamic joints (e.g., expansion, isolation, control) with Bostik Roll-Cote™ by applying a layer into the joint with a paintbrush to completely coat the walls of the cavity. Once dry, fill the joint with backer rod while leaving the top 1/8" to 1/4" of joint for treatment with a proper Bostik sealant. CAUTION: There is a major difference between the proper application of flooring over non-dynamic vs. dynamic joints, as well as variations based upon the type of flooring being installed. Please follow appropriate industry standards, as well as flooring manufacturer's recommendation for treatment of joints.

CLEANUP

Immediately clean all tools and equipment with soap and water or a mild solvent. Once cured, this material can only be mechanically removed, which may damage some surfaces, or cleaned with acetone or isopropyl alcohol.

CURE TIME

Light foot traffic can be allowed when the surface is tack free to the touch. Installation of flooring material may usually begin after 30 minutes for the first coat and 2 hours after the second coat at 50% RH/70°F (21°C). Times may vary due to substrate condition, substrate type, number of coats required per application, temperature, humidity, and dew point. Adhesive cure times may be extended when bonded directly to Roll-Cote™.

COVERAGE

Approximately 100-200 square feet per gallon. Coverage will vary based upon substrate condition, including concrete surface profiles as well as wood subfloors and the number of coats required.

LIMITATIONS

- Always do a test area to ensure product satisfaction, including adhesion to substrate, and/or to become familiar with proper application techniques prior to use.
- Not all floor covering adhesives/installation systems are compatible, or designed for use over Roll-Cote™. Use ONLY adhesives/installation systems specifically approved in writing for use over this membrane. Please contact Bostik Technical Service for questions related to the application of adhesive systems.
- Bostik's Best™ is not compatible with Roll-Cote™ for direct adhesion. Use a Bostik surface preparation product at greater than 1/8" when using Bostik's Best™ hardwood flooring adhesive.
- For wet set, water-based adhesive installations with resilient, or 'non breathable floor coverings' a blotter coat of a self-leveling underlayment, such as Bostik SL-100™, SL-175™, SL-200™ SL-Rapid™, SL-GYP™, or cementitious patch, such as Bostik UltraFinish™ Pro, Webcrete® 95, Webcrete® 98, must be installed at a minimum 1/8" layer on top of Bostik Roll-Cote™ High-Performance Moisture Vapor Membrane according to label instructions. Failure to apply this cementitious layer will result in the adhesive not drying and remaining wet/uncured.

- If using pressure-sensitive adhesives, a cementitious layer is not required to be placed over the Bostik Roll-Cote™ if the products are used properly (according to label instructions) and allowed adequate time to “flash off” prior the installation of the floor covering. Failure to allow these adhesives to reach their intended high-tack state will result in the adhesives not drying and remaining wet/uncured. A cementitious layer may be necessary for a smooth finish to prevent telegraphing through the surface of certain flooring types.
- Due to limitations with gypsum-based materials in wet/moist environments, gypsum-based patches/underlayments should not be used under this system.
- Thoroughly clean surface or mechanically remove any substance that could interfere with the bond, including dirt, paint, oil, grease, laitance, efflorescence, curing compounds, residue, sealers, and any other surface contaminants that may inhibit proper bond. Do not use acid etching to prepare substrate surface.
- For applications over burnished concrete, contact Technical Service at (800) 726-7845, or email at Techservice@Bostik.com.
- Do not use in areas subject to hydrostatic head or apply to surfaces with visible/standing moisture.
- Roll-Cote™ is not to be used as a waterproofing or anti-fracture membrane.
- On- or below-grade substrates must have appropriate vapor membrane (6 mil poly or better) properly installed below slab per ASTM E-1745-09 “Standard Specifications for Water Vapor Retarder Used in Contact with Soil or Granular Fill Under Concrete Slabs.”
- Protect installed vapor membrane from jobsite traffic. When working on top of the moisture-vapor membrane, do not wear metal spike cleats, only rubber cleats.
- Do not thin/dilute product with solvent.
- Please refer to flooring manufacturer’s recommendations and NWFA’s specifications for proper acclimation, verification of moisture content of flooring with a moisture meter, and expansion relief around perimeter throughout installation.
- Concrete must be a minimum temperature of 40°F (4°C) and a maximum of 90°F (32°C). Do not apply to concrete that is in direct sunlight or is increasing in temperature. Apply as the concrete slab is cooling to reduce outgassing and the appearance of pinholes. Pinholes will compromise the membrane and may cause it to fail.
- Bostik Roll-Cote™ is not designed to be used as a penetrant to treat concrete slabs that contain ASR (Alkali Silica Reaction). If this condition is suspected to be present, do not use this product.

STORAGE/SHELF LIFE

1. Roll-Cote™ can be used for a period of up to 18 months from date of manufacture if stored in original, unopened container at temperatures above 40°F (5°C). DO NOT ALLOW MATERIAL TO FREEZE.
2. After opening, Roll-Cote™ can be saved for reuse if properly resealed in original container. Always wipe the pail lip clean prior to resealing to ensure proper seal is achieved.

PACKAGING

1-Gallon pail; 4-Gallon pail

CAUTION

IRRITANT. MAY IRRITATE EYES, SKIN OR RESPIRATORY TRACT. CONTENTS MAY BE HARMFUL IF SWALLOWED OR INHALED. Methanol may form during curing. Do not breathe fumes. Do not get in eyes, or on skin or on clothing. Do not swallow. Handle with care. Use only in a well ventilated area or wear a mask. Wear protective clothing including gloves. Wash thoroughly after handling. Store in a cool, dry area. Do not reuse container.

KEEP OUT OF REACH OF CHILDREN.

FIRST AID TREATMENT

If in eyes or on skin, rinse with water for at least 15 minutes. If on clothes, remove clothing. If breathed in, remove person to fresh air. If swallowed, call a Poison Control center or doctor immediately. Do not induce vomiting.

SEE SAFETY DATA SHEET

CHEMICAL EMERGENCY: 800-424-9300 (USA), 703-527-3887 (International)

MEDICAL EMERGENCY: 866-767-5089

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