



Roll-Cote™

FREQUENTLY ASKED QUESTIONS

INTRODUCTION

Thank you for your interest in Roll-Cote™, the high-performance moisture-vapor-barrier coating and primer from Bostik. Below is a list of commonly-asked questions in regards to the performance and workability of this groundbreaking new product.

It is important to 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.

If you have further questions, please contact your Bostik Sales Representative, or Bostik Technical Service at (800) 726-7845.

HOW STRONG IS THE BOND OF ROLL-COTE™ TO THE SUBFLOOR?

Adhesion to the substrate will vary depending on the nature of the substrate and its surface preparation. Normal adhesion values to concrete (including green concrete) should be superior to 300 PSI, and can range between 200 and 500 PSI depending on the concrete quality and environmental conditions, even after many months' ageing over a 100% RH concrete slab. These results are supported by certified third-party test reports as measured per ASTM D7235.

WHAT TYPE OF SURFACE PROFILE DO I NEED?

Roll-Cote™ has demonstrated superior adhesion to a variety of concrete surface profiles, ranging from CSP 1 to 5, although a CSP of 1, 2 or 3 is recommended to optimize coverage. Roll-Cote™ has excellent bond strength over power-troweled and burnished concrete (data also included in the third-party test reports). These results are supported by certified third-party test reports as measured per ASTM D7235.

WHEN CAN I INSTALL MY FLOORING?

After you have correctly installed one coat of Roll-Cote™, the floor is walkable in 30 min, and ready for flooring installation in 1 hour. After two coats of Roll-Cote™, wait 2 hours before installing your flooring.

HOW MANY COATS OF ROLL-COTE™ DO I NEED TO APPLY?

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 200 square feet per gallon each, achieving a dry film thickness of 8 mils for a total coverage of 100 square foot per gallon.



HOW DOES ROLL-COTE™ COMPARE TO EPOXY?

The appeal of Roll-Cote™ is multifaceted, with many benefits to your advantage.

- As an all-in-one product that serves as a primer, moisture mitigation, and alkali resistance, no additional steps are needed with Roll-Cote™. For that alone, the labor and materials cost savings is significant.
- Epoxies are much more challenging to spread, may require sand broadcast or primer to facilitate adhesion, have limited working times, and can be sensitizing to the user and applicator. Epoxies require an installer to be on his knees to apply. Roll-Cote™ can be applied at a standing position, using a long-handled, 3/8" nap roller.
- Roll-Cote™ requires up to 1 hour of dry time before it is walkable, compared to traditional epoxies which often require 6 hours to a full day to cure, which is great news on the jobsite when time is money.
- Roll-Cote™ does not contain any skin or respiratory sensitizer.
- Because Roll-Cote™ is a one-component product, there is no limited pot life.
- Roll-Cote™ does not require sand broadcasting to accept cementitious products. (NOTE: Roll-Cote™ is not suitable for situations where negative hydrostatic pressure is present.)

I NOTICED THAT ROLL-COTE™ IS DRY AFTER 15 MINUTES. CAN I INSTALL MY FLOORING THEN?

No. It is important to give each coat the full amount of drying time listed before applying additional coats, or starting the next phase of your flooring installation.

Roll-Cote™ Quick Reference By Application Type

| Type of Application | Primer or Prime Coat | Vapor Retarder | Moisture Vapor Barrier | |
|--|--|---|---|---|
| Application Tools | 3/8" nap roller or split-tip broom | 3/8" nap roller | 3/8" nap roller | |
| Substrate Type | Concrete, Highly Porous Concrete, and Burnished Concrete | Plywood, High-Performance Subflooring Panels | Concrete | |
| Flooring / Adhesive Types | Self-leveling underlayments, floor patches, tile mortars, or prior to applications of Roll-Cote™ | Glue-assist, Floating Floors, Click-together Floors | Self-leveling underlayments, floor patches, tile mortars, hardwood flooring adhesives, and resilient adhesives ¹ | |
| Dilution Ratio | 1 to 1 (with water by volume) | Undiluted | Undiluted | |
| Working Time | 2-4 hours | 1-3 hours | 1-3 hours | |
| Shelf Life | 18 months | 18 months | 18 months | |
| Re-sealed Shelf Life | -- | 1 year | 1 year | |
| Shelf Life After Mixing with RC Plus™ | -- | 6 weeks | 6 weeks | |
| Coats Required | One | One | One coat Required for 90% RH | Two coats Required for 99% RH |
| Dry Film Thickness | -- | 4.1 mils | 4.1 mil | 8.2 mil |
| Moisture Limit | -- | 15% per NWFA guidelines ² | Up to 90% RH ³ | Up to 99% RH ³ |
| Coverage | 500-800 ft ² per gallon (of concentrate) | 200 ft ² per gallon | 200 ft ² per gallon | 100 ft ² per gallon |
| Dry Time | 30 minutes | 30 minutes | First coat: 30 minutes, Second coat: 1 hour | |
| Install Surface Preparation | 1 hour | < 1 hour | 2.5 hours | |
| Install Wood | -- | 1 hour ¹ | 2.5 hours ¹ | |
| Install Resilient | -- | 1 hour ⁴ | 2.5 hour ⁴ | |
| Install Tile | 1 hour | < 1 hour | 2.5 hours | |

Read and understand technical and safety data sheets prior to installation. ¹RC Plus™ is required with some hardwood flooring adhesives (MS-Polymer and Axios® Tri-Linking Polymer Technology adhesives) and when plasticizer migration resistance is needed. RC Plus™ must be mixed into all applications of Roll-Cote™ when it is required. ²Moisture content of wood cannot exceed 15% per NWFA guidelines. ³See flooring types on technical data sheet. ⁴SLU or floor patch may be required for compatibility with resilient adhesives and to prevent telegraphing of substrate and surface imperfections. Contact Technical Service for more information.

DO I NEED TO INSTALL OTHER SURFACE PREPARATION PRODUCTS ON TOP OF ROLL-COTE™?

The beauty of Roll-Cote™ is that it serves as a primer, moisture mitigation, and alkali resistance protection, so no other products are needed. When Roll-Cote™ is installed correctly, 2 hours after applying the second coat, you can safely install your self-leveling underlayment or flooring materials. NOTE: There are some flooring materials that require the use of RC Plus™ Crosslinking Additive.

HOW DOES RC PLUS™ FIT IN WITH ROLL-COTE™?

The use of RC Plus™ Crosslinking Additive, specially formulated to be used with Roll-Cote™ exclusively, is required when working with an Axios® or MS-Polymer adhesive systems or where plasticizer migration resistance is needed. If the RC Plus™ is required for the flooring adhesive type, it must be mixed into all coats of Roll-Cote™, including a prime coat if a prime coat is used. Roll-Cote™, and RC Plus™ where applicable, is rated for unlimited moisture for hardwood flooring and tile applications, up to 95% for and sheet vinyl when paired up with the proper Bostik adhesive system. Sheet goods are rated for 95%, but PVC carpet tile can go 99%; however, both require the use of RC Plus™.

RC Plus™ is sold separately from Roll-Cote™. For applications where RC Plus™ is needed, mix one 12-oz. unit of RC Plus™ per 1 gallon of Roll-Cote™ using a low-speed drill mixer until the RC Plus™ is blended throughout Roll-Cote™ (4 units per 4 gallon pail).

CAN I DIRECT-BOND RESILIENT FLOORING TO ROLL-COTE™?

Yes! Resilient floorings such as laminate, sheet vinyl, LCT/LVT and even carpet, are all approved floor coverings for Roll-Cote™, offering up to 99% RH (see technical data sheet). NOTE: The use of RC Plus™ Crosslinking Additive or self-leveling underlayments or floor patches, may be required for compatibility with resilient adhesives and to prevent telegraphing of substrate and surface imperfections. Contact Bostik Technical Service for more information.

CAN I USE HARDWOOD FLOORING ADHESIVE OVER ROLL-COTE™?

Absolutely! Roll-Cote™ offers unlimited moisture protection and is approved for use under Polyurethane hardwood adhesives. If you are planning to use Axios® or MS polymer adhesives, RC Plus™ Crosslinking Additive is required with Roll-Cote™ for unlimited moisture protection.

CAN I INSTALL TILE OVER ROLL-COTE™?

Of course! Installing Roll-Cote™ prior to the application of tile offers unlimited moisture protection for your ceramic, porcelain or natural stone installations. Roll-Cote will greatly improve grout color performance in environments where slab moisture may be high and will significantly reduce slab-moisture-driven efflorescence.

WHY IS ALKALI BLOCKING IMPORTANT?

The alkalinity of new concrete is expressed numerically by pH readings. The pH of fresh concrete is 12 to 13. It takes approximately 30 days for fresh materials to drop to an approximate pH of 9. A pH of 9 is less alkaline than a pH of 13, and a coating has a greater assurance of success when applied to a less alkaline surface. Once these surfaces are cured, the introduction of moisture into these walls may reactivate the high pH alkalinity, resulting in efflorescence, blistering, and peeling of a primer, degradation of resilient flooring adhesives, or other adhesive product.

Bostik Roll-Cote™ is uniquely formulated to be effective in blocking the surface alkalinity of concrete slabs, including 5-day-old green concrete, providing a surface pH level of 9 or lower, as recommended by the Carpet and Rug Institute and the Canadian Carpet Institute, making them ideal for bonding with most adhesive products.

WHY IS MOISTURE PROTECTION IMPORTANT?

Simply put, when moisture penetrates your flooring it can cause swelling or curling, mold, mildew, and the potential for other types of water damage, like cupping and efflorescence. The innovative formula of Roll-Cote™ offers moisture mitigation, proven to help control the water vapor's movement and help protect your floors. Do not apply Roll-Cote™ to surfaces with visible/standing moisture. Slab moisture 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 RH is greater than 99% following ASTM F2170, please contact Bostik Technical Service.

HOW DOES ROLL-COTE™ DIFFER FROM OTHER PREMIXED MOISTURE BLOCKERS/REDUCERS?

In addition to Roll-Cote™ being a low-odor, one-component system with a quick drying time, the rich black color offers an excellent visual indication of thickness and coverage, an attribute that is truly unique in the market. As an added bonus, the black color provides instant identification of dust and debris contamination on the job. Debris removal is critical for achieving a proper bond with the subsequent system components.

This product offers up to unlimited moisture protection for a variety of approved substrates. Roll-Cote™ is the only water-based moisture vapor barrier approved for hardwood applications. RC Plus™ Crosslinking Additive, which was specially formulated to work exclusively with Roll-Cote™, is also available and required when working with an Axios® or MS-Polymer adhesive systems, or where plasticizer migration resistance is needed.

IS ROLL-COTE™ ENVIRONMENTALLY FRIENDLY? DOES IT MEET LEED® OR RED-LIST-FREE REQUIREMENTS?

Based on a review of the product composition, this product is not known to contain substance(s) identified as ILFI Red List Chemicals above the reporting threshold and does not contain any substance listed in the Proposition 65. Also, the low-VOC formulation of Roll-Cote™ (<15 g/L, as calculated per SCAQMD Rule 1113) may contribute toward LEED® credits under Low-Emitting Materials - Coatings. A CDPH (California Department of Public Health) Standard Method for VOC Emissions certification is available upon request.

WILL THERE BE ANY BUBBLES OR OFF-GASSING FROM ROLL-COTE™?

Off-gassing occurs in epoxy-based products due to the slow cure time. Roll-Cote™ cures very quickly resulting in virtually no bubbles or off-gassing. Any bubbles you might see could be attributed to slab moisture, and so this is where the second coat of Roll-Cote™ is critical.

CAN YOU INSTALL FLOATING FLOORS OVER ROLL-COTE™?

Yes. Roll-Cote™ has a durable finish that allows for use underneath both floating floors that do not require additional surface preparation products and floating floors that need additional patching or leveling. For floating floor applications, the RC Plus™ Cross-linking Additive is not necessary unless the flooring manufacturer explicitly calls out plasticizer migration as a limitation.

DO WE NEED TO WORRY ABOUT SKIN IRRITATION WITH ROLL-COTE™?

No. Epoxy-based products can yield skin irritation and sometimes can require respiratory equipment for installation. Roll-Cote™ is water-based, low-odor, easy to clean, and non-hazardous for the applications listed on the technical and safety data sheets.

WILL MIXING RC PLUS™ WITH ROLL-COTE™ AFFECT THE SHELF LIFE, DRYING TIME OR INSTALLATION TIME?

Once mixed, the Roll-Cote™ and RC Plus™ mixture can be stored for up to 6 weeks in a well-sealed container. Roll-Cote™ contains RapidCure™ Technology, which yields fast drying times that are not slowed by the use of RC Plus™. The only additional installation time is the quick mixing process of adding RC Plus™ into Roll-Cote™ at a rate of 1 unit of RC Plus™ per gallon of Roll-Cote™.

WILL ROLL-COTE™ PEEL OR SCRAPE OFF ONCE IT HAS DRIED?

Roll-Cote™ will not be easy to remove as the bond is extremely tenacious. Use caution or protect adjacent surfaces when working with Roll-Cote™. RapidCure™ Technology makes Roll-Cote™ highly resistant to gouges or scraping from troweling, gauge-raking and flooring installation.

When applying self-leveling underlayments or additional coats of Roll-Cote™, we recommend wearing rubber or plastic cleats, NOT metal cleats.

IS ROLL-COTE™ COMPATIBLE WITH BOSTIK'S BEST®?

Bostik's BEST® cannot be applied directly to either Roll-Cote™, or Roll-Cote™ mixed with RC Plus™. A layer of self-leveler or floor patch at greater than or equal to 1/8" must completely cover Roll-Cote™ before Bostik's BEST® can be installed. Note that because Roll-Cote™ is self-priming, no additional primer is needed on top of Roll-Cote™ before the leveler or patch can be installed.

HOW LONG CAN YOU LEAVE ROLL-COTE™ BEFORE INSTALLING THE NEXT LAYER?

Installed Roll-Cote™ can be left uncovered for up to 3 days. After 3 days, an additional application of Roll-Cote™ is necessary. Make sure the surface of Roll-Cote™ is clean, protected from traffic, and protected from contamination to ensure bond ability between Roll-Cote™ and the additional components of the flooring systems.

IF YOUR FLOOR GETS CONTAMINATED AFTER ROLL-COTE™ HAS DRIED, HOW CAN YOU CLEAN IT?

For dust and footprints, generally a damp cloth can be used to "damp-tack" the floor by wiping the debris and contamination from the surface. Let dry before proceeding. If the Roll-Cote™ is left for more than 3 days after the initial application, an additional coat of Roll-Cote™ will be necessary prior to flooring installation.

BOSTIK HOTLINE

Smart help
1-800-726-7845

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