



LOCK A699 PSA™

HIGH-MOISTURE RESISTANT RESILIENT ADHESIVE

TECHNICAL DATA SHEET 08/12/2024

SMART ADVANTAGES

- Bonds a wide variety of flooring
- High strength, high tack
- Bonds up to 99% RH & 12.0 pH

DESCRIPTION

Bostik LOCK A699 PSA™ is a solvent-free, water-based, acrylic adhesive specifically formulated for the installation of most resilient flooring in residential and commercial applications. LOCK A699 PSA™ is a 0 VOC formulation as calculated by SCAQMD Rule 1168. It displays tenacious early-strength and is specially formulated to be highly resistant to plasticizer migration. LOCK A699 PSA™ has been formulated to exhibit a unique combination of application properties including excellent trowelability, fast tack/grab, low odor, and easy cleanup.

ULTIMATE VERSATILITY

LOCK A699 PSA™ may be used to adhere LVT (Luxury Vinyl Tile), LVP (Luxury Vinyl Plank), sheet vinyl, VCT, cork, and non-PVC-backed carpet tile in residential or heavy commercial applications. It may be used over all properly prepared substrates common to resilient flooring installations including concrete, APA-grade plywood, cementitious-based patch/underlayments, gypsum-based patch/underlayments (in dry, above-grade applications), terrazzo, and radiant-heated flooring.

MOISTURE & ALKALI RESISTANCE

LOCK A699 PSA™ is formulated to resist high amounts of moisture vapor from concrete substrates, allowing it to bond flooring in conditions up to 99% RH and up to 12.0 pH (90% RH & 10.0 pH for sheet vinyl). Always measure the in situ RH of concrete slabs in accordance with ASTM F 2170, and test the pH of the slab.

LEED® CONTRIBUTION

LOCK A699 PSA™ is a 0 VOC formulation as calculated per SCAQMD Rule 1168, and may contribute toward LEED® credits under LEED® v4 Credits: IEQ Credit 2.1 and IEQ Credit 2.2.



DIRECTIONS FOR USE

Read and understand the data sheet completely before beginning installation. Follow the appropriate industry standards, including ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring as well as the floor covering manufacturer's directions.

Resilient flooring materials have vastly different substrate preparation and installation requirements that are essential to a successful installation regardless of flooring material or adhesive being installed. 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.

This supersedes and replaces in its entirety all previously published versions of this document. B216968

SURFACE PREPARATION

Surfaces must be clean, dry, and flat; free of voids, projections, loose materials, oil, grease, sealers, and all other surface contaminants. Mechanically remove all surface contaminants by grinding or scarifying the substrate. Surface areas requiring patching or leveling must be treated using Bostik cement patches and/or self-leveling underlayments. Refer to the use instructions of these products for proper installation.

Bostik D-250™ Moisture Vapor Barrier Coating or Slab-Cote™ Extreme Moisture Vapor Barrier Coating are recommended for installations where moisture and/or alkalinity in excess of stated limits may exist or might occur from the concrete slab.

INSTALLATION

Spread LOCK A699 PSA™ evenly with the proper trowel as described. Flash time and working time are influenced by substrate porosity and atmospheric conditions (i.e., temperature, humidity, and air movement). The higher the temperature, the lower the humidity; and the more porous the substrate, the faster the flash time and the shorter the working time. For best results maintain adhesive, floor covering, and room at a stable temperature of 65°F to 85°F (18°C to 29°C) and ambient humidity between 45-65% for 48 hours before and after installation.

Flooring may be installed when the adhesive has flashed off sufficiently to prevent adhesive transfer to the fingertips, usually after 10-20 minutes for porous substrates, or 30-60 minutes on non-porous substrates. Do not install flooring in wet adhesive on non-porous substrates. Always follow the flooring manufacturer's installation guideline. Flooring must be installed within the working time, up to 4 hours after flash time. Follow manufacturer recommendations for rolling and/or cross-rolling the flooring during installation.

CURE TIME

Traffic: Foot traffic may resume immediately after installation and rolling in dried adhesive installations. Wet mopping can be done after 1 week..

CLEANUP AND STORAGE

As you work, immediately clean any adhesive from resilient flooring using a clean, damp cloth. Immediately clean all tools and equipment before adhesive cures. Follow flooring manufacturer's recommendation for cleanup. Mineral spirits or another solvent may be needed to remove dried adhesive. Some flooring may not be compatible with solvents such as mineral spirits. The product should be stored in the original container in a cool, dry place and out of direct sunlight. Do not allow product to freeze. If the product should freeze, store at 75°F (25°C) until completely thawed, then thoroughly mix contents. Test carefully to ensure the product performance has not been compromised.

LIMITATIONS

- This product is for interior installations only.
- Do not use this product where excessive moisture and alkalinity are present as specified above, or by the flooring manufacturer.
- Test all concrete slabs for moisture per ASTM F2170 to determine RH. For slabs exceeding 99% RH or the floor covering manufacturer's RH limit, treat with Bostik's D-250™ or Slab-Cote™ Moisture Vapor Barrier Coating. Please refer to D-250™ or Slab-Cote™ data sheets.
- Do not use this product when the substrate temperature is below 65°F (18°C) or above 85°F (30°C) or when the relative humidity exceeds 65%.
- Do not use on wet, dusty, contaminated, or friable substrates; do not use over substrates/slabs treated with sealers, curing compounds, or chemical cleaners; do not use in areas subject to hydrostatic head.
- Do not allow heavy traffic or rolling loads for a minimum of 72 hours.

CHEMICAL & PHYSICAL PROPERTIES

Use Environments	Offices/Light Commercial	Yes	
	Residential	Yes	
	Hospitality	Yes	
	Heavy Commercial	Yes	
	Exterior	No	
	Wet Areas	No	
Substrates	Concrete	Yes	
	APA-Grade Plywood	Yes	
	Gypsum Underlayment*	Yes	
	Well-Bonded Vinyl	Yes	
	Steel	Yes	
	Terrazzo	Yes	
	OSB Underlayment	No	
	Asphalt	No	
Flooring Types	LVT or LVP	Yes	
	Sheet Vinyl**	Yes	
	VCT	Yes	
	Carpet Tiles**	Yes	
	Rubber Underlayment	No	
	Linoleum	No	
	Olefin-Backed Vinyl	No	
Cured Physical Properties	Time to Light Foot Traffic	Immediate	
	Full Return to Service	Immediate	
	Rolling Loads Capacity	High	
	Slab Moisture Limits***	99% RH	
	pH Resistance***	12.0***	
Uncured Physical Properties	Ease of Application	Extremely Easy	
	Odor	Slight	
	Required Flash Time	Porous Substrates: 10-20 minutes Non-Porous Substrates: 30-60 minutes	
	Working Time	4 hours	
	Color	White	
	Density (lbs/gallon)	8.3	
	Freeze/Thaw	Do Not Freeze	
	Chemical Properties	Chemistry Type	Acrylic
		Adhesive Type	Pressure Sensitive
		VOC****	0 g/L
Plasticizer Resistant		Yes	
Solvent Free		Yes	
Flash Point		>212°F	
% Solids	60%		

* Dry, above-grade applications only

** Except PVC backings

*** 90% RH & 10.0 pH for sheet vinyl

**** As calculated per SCAQMD Rule 1168

- Resilient flooring is available in a wide range of variations with a number of different backings; it is critical that a test is done prior to actual installation using the adhesive and flooring material to confirm compatibility, application techniques, and/or proper performance of the adhesive.
- LOCK A699 PSA™ may be used over any gypsum-based underlayments, but only in dry, above-grade applications.
- Do not use for PVC-backed carpet tile.

PACKAGING

LOCK A699 PSA™ is available in 4-gallon plastic pails (48 pails per pallet), and cases of 1 gallon pails, 4 per case (36 cases per pallet).

COVERAGE

Ensure proper adhesive coverage. Most resilient flooring types require >95% transfer. Trowel size listed is suggested to ensure proper bond while maximizing coverage of adhesive.

SHELF LIFE

Shelf life is two years from date of manufacturing in unopened, original packaging when stored at temperatures between 65°F (18°C) and 95°F (35°C)..

TOOL RECOMMENDATIONS

1/16" x 1/32" x 1/32" U-Notch

Coverage: 220-260 square feet per gallon.

3/8" Nap Roller (non-vinyl carpet tiles only)

Coverage: 350-400 square feet per gallon

CAUTION

MAY IRRITATE EYES, SKIN, AND RESPIRATORY TRACT. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Wash thoroughly after handling. Store container in a cool, dry area with lid tightly sealed. 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 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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Bostik, Inc.

11320 W. Watertown Plank Road

Wauwatosa, WI 53226

www.bostik.com/us

BOSTIK HOTLINE

Smart help 1-800-726-7845



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