



LOCK A499 PSA™

UNIVERSAL PRESSURE-SENSITIVE ADHESIVE

TECHNICAL DATA SHEET 07/25/2024

SMART ADVANTAGES

- Permanent, aggressive tack
- Bonds a wide variety of flooring
- Bonds up to 99% RH & 12.0 pH (for sheet vinyl, 90% RH & 10.0 pH)

DESCRIPTION

LOCK A499 PSA™ is a universal, high-tack, water-based adhesive specifically formulated for the installation of most resilient flooring in residential and commercial applications.

LOCK A499 PSA™ is a 0 VOC formulation. LOCK A499 PSA™ flashes off quickly, but has a long working time. It displays tenacious bond strength. LOCK A499 PSA™ has been formulated with exceptional application properties including excellent trowelability, fast tack/grab, low odor, and easy cleanup.

ULTIMATE VERSATILITY

LOCK A499 PSA™ may be used for bonding vinyl (sheet, tiles, or planks), VCT, and modular carpet tiles in residential or light commercial applications. It may be used over properly prepared concrete, APA-grade plywood, or gypsum underlayments in dry, above-grade applications, as well as radiant heat.

MOISTURE & ALKALI RESISTANCE

LOCK A499 PSA™ is resistant to high-moisture vapor and alkaline conditions. Always measure the in situ RH of concrete slabs in accordance with ASTM F2170, and test the pH of the slab. LOCK A499 PSA™ may be used on slabs with elevated moisture up to 99% RH and 12.0 pH (90% RH and 10.0 pH for sheet vinyl).

LEED CONTRIBUTION

LOCK A499 PSA™ is a 0 VOC formula 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.



Resilient flooring materials have vastly different substrate preparation and installation requirements, which are essential to a successful installation regardless of flooring material or adhesive being installed. Therefore, always do a test area to ensure proper bonding and adhesive spread rate, and/or to become familiar with proper application techniques prior to use.

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.

PLEASE NOTE: LOCK A499 PSA™ is not a moisture-vapor barrier.

This supersedes and replaces in its entirety all previously published versions of this document. B72994

INSTALLATION

Spread LOCK A499 PSA™ evenly with the proper trowel as described. Open time is influenced by substrate porosity and atmospheric conditions (i.e., temperature, humidity, and air movement). For best results maintain adhesive, floor covering, and room at a stable temperature of 65°F–85°F (18°C–30°C) continuously for 48 hours before and after installation. Relative humidity must be maintained between 45–65%. Follow manufacturer recommendations for rolling and/or cross-rolling the flooring during installation.

CURE TIME

Temperature, humidity, and substrate porosity affect the flash time and working time. The higher the temperature, the lower the humidity, and the more porous the substrate, the faster the flash time and working time. Flooring may be installed when the adhesive has flashed off sufficiently to prevent adhesive transfer to the fingertips, usually after 10–20 minutes. Always follow the flooring manufacturer's installation guideline. Flooring must be installed within the working time, up to 4 hours after flash time.

Traffic: Normal traffic may resume after 24 hours. Avoid heavy rolling loads for 72 hours. Wet mopping can be done after 1 week.

COVERAGE

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

TROWEL RECOMMENDATIONS

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

Coverage: 220–260 square feet per gallon

3/8" Nap Roller (Carpet Tile Applications Only)

Coverage: 350–400 square feet per gallon

CLEANUP

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. Denatured alcohol or other solvent may be needed to remove dried adhesive. Some flooring may not be compatible with solvents such as denatured alcohol.

STORAGE AND SHELF LIFE

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 (24°C) until completely thawed, then thoroughly mix contents. Test carefully to ensure the product performance has not been compromised.

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).

LIMITATIONS

- This product is for interior installations only.
- Do not use this product where excessive moisture and alkalinity exceed limitations stated above.
- Test all concrete slabs for moisture per ASTM F2170 to determine RH. For slabs exceeding 99% RH (90% RH for sheet vinyl) or the floor covering manufacturer's moisture-vapor limit, treat with Bostik's D-250™ or Slab-Cote™ Moisture Vapor Barrier Coating. Please refer to D-250™ or Slab-Cote™ data sheets.
- LOCK A499 PSA™ is not designed for use under oil-based linoleum.
- 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 or curing compounds; do not use in areas subject to hydrostatic head.

CHEMICAL & PHYSICAL PROPERTIES

Use Environments	Offices/Light Commercial	Yes
	Residential	Yes
	Hospitality	Yes
	Hospital/Healthcare	Yes
	Heavy Commercial	Yes
	Exterior	No
	Wet Areas	No
Substrates	Concrete	Yes
	APA-Grade Plywood	Yes
	Gypsum Underlayment	Yes*
	Well-Bonded Vinyl	Yes
	Terrazzo	Yes
	OSB Underlayment	No
	Prepared Metal	No
Flooring Types	Asphalt	No
	LVT or LVP	Yes
	Sheet Vinyl	Yes
	VCT	Yes
	Carpet Tiles	Yes
	PVC Backings	No
	Olefin-Backed Vinyl	Yes
Cured Physical Properties	Rubber	No
	Linoleum	No
	Full Return to Service	24 hrs
	Rolling Loads Capacity	Moderate
Uncured Physical Properties	Slab Moisture Limits	99% RH (90% for sheet vinyl)
	pH Resistance	12.0 pH (10.0 for sheet vinyl)
	Ease of Troweling	Extremely Easy
	Odor	Slight
Chemical Properties	Required Flash Time	10–20 minutes
	Working Time	4 hours
	Color	White
	Density (lbs/gallon)	8.3
Chemical Properties	Freeze/Thaw	Do Not Freeze
	Chemistry Type	Acrylic
	Adhesive Type	Pressure Sensitive
	VOC**	0 g/L
	Plasticizer Resistant?	Yes
	Solvent Free?	Yes
Chemical Properties	Flash Point	>212°F

* Dry, above-grade applications only

** 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 A499 PSA™ may be used over gypsum-based underlayments, but only in dry, above-grade applications.

PACKAGING

LOCK A499 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).

CAUTION

MAY IRRITATE EYES, SKIN AND RESPIRATORY TRACT. Do not get in eyes, on skin or on clothing. Do not breathe fumes. 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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