



## 4099 HIGH PERFORMANCE MULTI PURPOSE ADHESIVE



### ENVIRONMENTAL/PERFORMANCE:

- Solvent-Free / VOC Compliant
- Superior Green Strength
- Non Staining
- Low odor / odorless when dry
- For heavy commercial use
- Guaranteed for the Life of the Floor covering
- CRI Green Label Plus Certified
- MICROBAN® Antimicrobial Protection

### DESCRIPTION:

Signature Series 4099 High Performance Multi Purpose Adhesive is recommended for the installation of most carpet backings used in heavy commercial applications. 4099 is extremely aggressive, quickly developing “tack” for those “hard to hold” installations resulting in saving time and money. 4099 is the perfect choice, whether installing carpet with Action-Bac or the more difficult to hold backings such as latex unitary, hot melt, Enhancer types and most of the majority of carpet backings found in the market place today. 4099 is also recommended for the installation of fibrous backed resilient floor covering.

It is highly recommended for use in health care facilities, educational institutions, hospitals, dining areas and occupied office buildings.

**This adhesive cannot be used for vinyl-backed carpet, vinyl cushion backed sheet goods or urethane unitary carpeting.**

### SUB-FLOOR PREPARATION:

Follow all manufactures recommendations and industry standards regarding sub-floor preparation.

We require that moisture tests be performed on all concrete sub-floors regardless of grade level or whether or not the concrete is freshly poured or is classified as an older slab. Moisture testing should be performed by ASTM F1869 Calcium Chloride Tests with moisture levels not to exceed three (3) pounds per Twenty-Four (24) hours per one thousand (1000) square feet or ASTM F2170 In Situ Relative Humidity Test with readings with moisture levels when measured by this method, not to exceed seventy-five (75) percent. Additional information with regard to these tests and results can be obtained through Para-Chem’s Technical Service Department.

**Additional information with regard to sub-floor installation and requirements can be found in ASTM F-710 or CRI 104-105.**

Install over plywood, hardwood and all grades of concrete where moisture or moisture related problems such as alkalinity do not exist.

Corporate Headquarters • 863 SE Main Street • Simpsonville, SC 29681

Phone: 1-800-763-7272 • ISO 9001 Certified

[www.parabond.com](http://www.parabond.com)

6/12/2007

## DIRECTIONS:

Refer to all manufacturer's recommendations prior to installation to determine suitability of all materials to be used. Follow the Carpet and Rug Institute Standard 104 and 105 where appropriate.

1. Subfloor must be clean, dry, smooth and free of any contamination, which may interfere with the adhesive bond. Seal all chalky, very porous floors with PARABOND M-620.
2. Follow floor covering manufacturer's recommendations regarding layout, cutting, seaming and maintenance.
3. Allow the adhesive to tack up when installing urethane foam backed carpet.
4. While the adhesive is designed to meet the challenges of poorly ventilated areas, sufficient air exchanges are still required to ensure proper curing of any latex-based adhesive.
5. Spread adhesive with a notched trowel leaving ridges of sufficient height to establish complete transfer to back of floor covering. Trowel sizes may need to be adjusted due to subfloor porosity, floor covering backing and open time requirements.
6. Lay most floor coverings into adhesive within 20 minutes. Use the tacky dry installation method when installing non-porous backed carpeting. Lift floor covering periodically to check adhesive transfer to the backing. 100% adhesive transfer is required to promote maximum adhesive bond.
7. Roll carpet using the floor covering manufacturer's recommended roller shortly after installation. Seams require seam sealing using M-4263.

PARA-CHEM does not recommend or warrant the use of this adhesive over existing cutback adhesive, or its residue. Cutback adhesives must either be removed or encapsulated so as not to interfere with the adhesion of new adhesive.

## CLEAN-UP:

Remove wet adhesive immediately with a damp cloth. Use Mineral Spirits or M-315 Cleaner to remove dried adhesive on vinyl or carpeting.

**CAUTION: Mineral Spirits is flammable. Read and follow all precautions on container label.**

## COVERAGE AND TROWEL RECOMMENDATION:

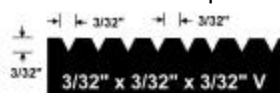
Approximately 80-150 sq. ft. per gallon depending on application and trowel size.

### TROWEL RECOMMENDATIONS:

For Heavy Carpet Backs use a 1/8" x 1/8" x 1/8" V-notch



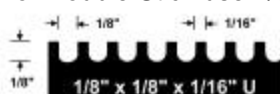
For Moderate Carpet Backs use 3/32" x 3/32" x 3/32" V-notch



For Sheet Goods use 1/16" x 1/16" x 1/16" Square notch



For Double Stick use 1/8" x 1/8" x 1/16" U-notch



Corporate Headquarters • 863 SE Main Street • Simpsonville, SC 29681

Phone: 1-800-763-7272 • ISO 9001 Certified

[www.parabond.com](http://www.parabond.com)

6/12/2007

**PHYSICAL PROPERTIES:**

Color Light straw colored paste

**CALIFORNIA VOC (Volatile Organic Compound) COMPLIANCE:**

Solvent Free Product.

SCAQMD Rule 1168: VOC compliant.

SCAQMD Rule 443.1: Grams of VOC per Liter of Material < 1 gram/liter.

Grams of VOC per Liter of Coating < 1 gram/liter.

**FOR MORE INFORMATION READ MATERIAL SAFETY DATA SHEET****KEEP OUT OF REACH OF CHILDREN****WARNING!!**

Various Federal, State and Local Government agencies have regulations governing the removal of in-place asbestos-containing material. If you contemplate the removal of a resilient floor covering structure that contains (or is presumed to contain) asbestos, you must review and comply with all applicable regulations.

Follow the RFCI's Recommended Work Practices for Removal of Resilient Floor Coverings.

RFCI, 401 East Jefferson St., Suite 102, Rockville, MD 20850 – phone 301-340-8580

**WARRANTY:**

Signature Series 4099 is warranted against cohesive failure (loss of bond) for the life of the floor covering. If a failure should occur due to out of specification adhesive, provided all industry standards are followed, Para-Chem will pay all reasonable labor costs and materials on a pro-rated basis.

**FILING A CLAIM**

If you believe you have claim, the supplier from whom you purchased the adhesive should be notified and supplied with proof of purchase. Supplier will contact his or her PARA-CHEM representative who in turn will collect all information including labor cost and date of installation. Information collected will be reviewed and claims dispositioned within thirty days. PARA-CHEM reserves the right to physically inspect all installation prior to disposition of said claim.

*(Shelf life limited to one year from date of manufacture, stored in an unopened container at 70°).*

PARA-CHEM excludes and will not pay consequential or incidental damages under this warranty. By this we mean any loss, expense or damage other than to flooring itself that may result from a defect in the adhesive itself.

# MATERIAL SAFETY DATA SHEET

Page 1 of 3

*Para-Chem*<sup>®</sup>, PO Box 127, Simpsonville, SC 29681  
24-Hour Emergency Telephone: (864) 967-7691

---

## SECTION 1. PRODUCT IDENTIFICATION

---

PRODUCT NAME: Signature Series 4099 High Performance Multi-Purpose Adhesive  
CHEMICAL FAMILY: Water Base Adhesive

---

## SECTION 2. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

---

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Not hazardous as defined by OSHA 29 CFR 1910.1200.				

---

## SECTION 3. HAZARDS IDENTIFICATION

---

PRIMARY ROUTES OF ENTRY: Eyes, skin, inhalation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: May cause slight irritation.

SKIN CONTACT: No effect known.

INGESTION: May cause discomfort, nausea, and diarrhea.

INHALATION: May cause slight discomfort.

CHRONIC: None known.

CARCINOGENICITY: This product contains no ingredient above the OSHA minimum reporting threshold listed as a carcinogen by IARC, NTP, or OSHA.

---

## SECTION 4. FIRST AID MEASURES

---

EYE CONTACT: Flush with water for 15 minutes. Contact a physician if irritation occurs.

SKIN CONTACT: Wash with soap and water.

INGESTION: Do not induce vomiting, contact a physician.

INHALATION: Remove to fresh air.

---

## SECTION 5. FIRE-FIGHTING MEASURES

---

FLASH POINT (°)F: None.

LOWER FLAMMABLE LIMIT: None.

UPPER FLAMMABLE LIMIT: None.

FIRE-FIGHTING INSTRUCTIONS: Use protective clothing and self-contained breathing apparatus.

EXTINGUISHING MEDIA: Water fog, CO<sub>2</sub>, dry chemical, and chemical foam.

DECOMPOSITION PRODUCTS: Dried material may produce CO, CO<sub>2</sub>, H<sub>2</sub>O, N<sub>x</sub>O, and other hydrocarbons.

# MATERIAL SAFETY DATA SHEET

Page 2 of 3

---

## SECTION 6. ACCIDENTAL RELEASE MEASURES

---

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Shovel or scoop material into secure container for re-use or disposal. Dispense sand, sawdust, or vermiculite and absorb spill residue. Collect and place in waste container. Wash area thoroughly with water.

---

## SECTION 7. HANDLING AND STORAGE

---

HANDLING: Use good hygienic practices. (Wash hands before eating, using washroom, or smoking.) Keep out of the reach of children.

STORAGE: Store above 40° F. Freeze/thaw stable up to five cycles at 20° F.

---

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Wear safety glasses or splash goggles if contact with material is likely.

SKIN PROTECTION: Wear rubber or leather gloves where contact with material is likely.

RESPIRATORY PROTECTION: Not normally required with good ventilation.

ENGINEERING CONTROLS: Normal room ventilation. Open doors and windows, use floor and ceiling fans to ventilate work area during application.

---

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

---

BOILING POINT (°F): 212

SPECIFIC GRAVITY (WATER = 1): 1.14

VAPOR PRESSURE: Same as water.

VAPOR DENSITY(air=1): Same as water.

% VOLATILE BY WEIGHT: 32 - 34

pH: 9.65

APPEARANCE AND ODOR: Light straw colored paste.

---

## SECTION 10. STABILITY AND REACTIVITY

---

CHEMICAL STABILITY: Stable.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

