



# 4223

## SOLV-FREE VINYL SHEET GOODS FLOOR COVERING ADHESIVE

### ENVIRONMENTAL/PERFORMANCE:

- Solvent-Free
- Non-hazardous – VOC Compliant
- Moisture and mildew resistant
- 1 year non-staining warranty
- Excellent open time

### DESCRIPTION:

Fusion Series 4223 Solv Free Vinyl Sheet Goods Floor Covering Adhesive is a latex based adhesive that has been specially formulated for the installation of mineral fibrous felt-backed floor covering. 4223 dries light in color and will not create any adhesive induced (below the surface) type discoloration. The M-4223 meets all flammability requirements for a Class A Flame Spread Rating as per ASTM E-84.

### 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, 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.**

### DIRECTIONS:

1. Follow floor covering manufacturer's recommendations regarding layout, cutting, seaming and maintenance.
2. Spread adhesive with the appropriate notched trowel, leaving ridges of sufficient height to establish complete contact with back of floor covering. Trowel sizes vary with sub-floor porosity, floor covering backing and open time requirements.
3. Place floor covering into wet adhesive and roll in both directions with a minimum 75 lb. roller.
4. Refer to floor covering manufacturers recommendations regarding proper seaming (cutting), seam sealing and maintenance procedures.
5. Lift floor covering periodically to check adhesive transfer to the backing. A 100% adhesives transfer is required to promote maximum adhesion.

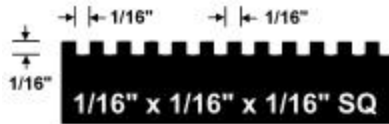
**CLEAN-UP:**

Fresh adhesive can be removed immediately with a damp cloth. If adhesive has dried, use waterless hand cleaner, Mineral Spirits, or M-315 Cleaner. Do not allow solvent to penetrate seams. Solvent will dissolve adhesive bond.

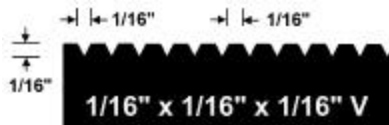
**CAUTION: Mineral Spirits is flammable. Read and follow all precautions on container label.**

**COVERAGE AND TROWEL RECOMMENDATION:**

For Porous applications use 1/16" x 1/16" x 1/16" square notch trowel. Spread rate is 150-200 sq ft / gallon



For Non-Porous applications use 1/16" x 1/16" x 1/16" V-notch trowel. Spread rate is 180-200 sq ft / gallon

**PHYSICAL PROPERTIES:**

Weight/gallon (lbs.)	9.9
Freeze Thaw	5 cycles @ 0°F
Shelf Life	One Year at 70°F in un-opened container

**FOR MORE INFORMATION READ MATERIAL SAFETY DATA SHEET**

**KEEP OUT OF REACH OF CHILDREN**

**WARNING!!**

Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, asphalt "cutback" adhesive, or other adhesive.

These products may contain asbestos fibers and/or crystalline silica.

Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard.

Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm.

Unless positively certain that the product is a non-asbestos containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content.

RFCI's Recommended Work Practices for Removal of Resilient Floor Coverings are defined set of instructions addressed to the task of removing all resilient floor-covering structures.

**NOTICE**

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.

For more information contact PARA-CHEM's Technical Department at 800-763-7272 or RFCI at:

Resilient Floor Covering Institute

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Rockville, MD 20850 301-340-8580

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

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

6/11/2007

**WARRANTY:**

When PARABOND® adhesives are used as recommended (product data sheets, product specifier, product resource guide, etc.), and all installation instructions are followed according to accepted industry standards and procedures recommended by the floor covering manufacturer, Para-Chem's warranty is as follows:

If an installation failure occurs within one year from date of installation as a direct result of out-of-specification adhesive, Para-Chem will pay for material and reasonable labor as determined by Para-Chem. Para-Chem specifically excludes and is not liable for any other damage or loss, including consequential or incidental damage or loss.

# MATERIAL SAFETY DATA SHEET

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Para-Chem<sup>®</sup>, PO Box 127, Simpsonville, SC 29681

24-Hour Emergency Telephone: (864) 967-7691

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## SECTION 1. PRODUCT IDENTIFICATION

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PRODUCT NAME: Fusion Series 4223

CHEMICAL FAMILY: Water Base Adhesive

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## SECTION 2. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

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<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
None				

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## SECTION 3. HAZARDS IDENTIFICATION

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PRIMARY ROUTES OF ENTRY: Eyes, Skin

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: Can cause slight irritation.

SKIN CONTACT: No effects expected.

INGESTION: May cause discomfort to digestive system.

INHALATION: No effects expected.

CHRONIC: None known.

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

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## SECTION 4. FIRST AID MEASURES

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

SKIN CONTACT: Wash with soap and water.

INGESTION: Do not induce vomiting and call physician immediately.

INHALATION: Move person to fresh air.

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## SECTION 5. FIRE-FIGHTING MEASURES

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FLASH POINT (°)F: None.

FIRE-FIGHTING INSTRUCTIONS: Water for dried material. Use protective clothing and self-contained breathing apparatus.

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

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Place back into container for use if uncontaminated. For contaminated product, scoop material into secure waste container. Dispense sand, sawdust, or vermiculite to absorb residue, collect and place in waste container. Wash area thoroughly with water.

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## SECTION 7. HANDLING AND STORAGE

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HANDLING: Use good hygienic practices. (Wash hands before eating, using washroom, or smoking.) Product will adhere to skin and clothing.  
STORAGE: Store above 40° F. Freeze/thaw stable up to five cycles at 20° F.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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PERSONAL PROTECTIVE EQUIPMENT:

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

SKIN PROTECTION: Wear 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 exhaust work area during application.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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BOILING POINT (°F): 212

SPECIFIC GRAVITY (WATER = 1): 1.19

VAPOR PRESSURE: Same as water.

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

% VOLATILE BY WEIGHT: 47

pH: 9.25

APPEARANCE AND ODOR: Straw colored paste with mild odor.

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## SECTION 10. STABILITY AND REACTIVITY

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CHEMICAL STABILITY: Stable.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known

HAZARDOUS DECOMPOSITION PRODUCTS: None.

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## SECTION 11. TOXICOLOGICAL INFORMATION

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No information available.

