



4600 VINYL BACK FLOOR COVERING ADHESIVE



ENVIRONMENTAL/PERFORMANCE:

- Solvent-Free – VOC Compliant
- MICROBAN® Antimicrobial Protection
- Excellent Open Time
- CRI Green Label Plus Certified
- Low odor / odorless when dry
- Non-Staining

DESCRIPTION:

Fusion Series 4600 Vinyl Back Floor Covering Adhesive is a premium (non-staining) latex adhesive, designed to permanently install dimensionally stable vinyl backed resilient sheet goods, homogenous commercial grade PVC sheet flooring, PVC backed carpet, PVC backed carpet tiles, PVC sheet vinyl (vinyl backed), vinyl tile, vinyl plank, linoleum, and linoleum tile. 4600 may be used on all grades of concrete on above or below grade in the absence of moisture, as well as suspended approved wood floors (APA). 4600 may also be used for installing over existing, non-cushioned resilient flooring.

This adhesive is non-flammable, water and alkali resistant and freeze-thaw stable. 4600 has excellent resistance to plasticizer migration and sets to a tough permanent bond.

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. Store flooring and adhesive at 65-70°F for 24 hours prior to and during installation.
2. All sub-floors must be clean, dry, free of dust, dirt, wax, paint, grease or any other contaminants that might interfere with the adhesive bond.
3. Follow Manufacturer's recommendations as to seaming and sealing. Roll flooring with a 75-100 pound roller.
4. Cracks and uneven surfaces must be filled with a cement based patching compound such as Parabond Micro Finish or PP-Plus. Parabond M-600 may be used if there is no evidence of moisture.

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PVC backed carpet and carpet tiles and PVC sheet vinyl (with vinyl backing).

1. Trowel recommendations for these products are listed on the 4600 trowel chart.
2. For PVC backed carpet, carpet tile, and homogeneous sheet vinyl (vinyl backed), the adhesive must be allowed to dry to the touch so that there is little or no transfer of adhesive to the finger.
3. Once the adhesive reaches the dry-to-the-touch state, it is ready to accept flooring.
4. Rolling with a three-section floor roller should take place immediately after the material has been placed into the adhesive.
5. For carpet and carpet tile, a 50-75 pound roller should be utilized.
6. For homogenous sheet vinyl, a 100-pound roller is recommended.
7. From the time the adhesive is allowed to dry to the touch, to the time it must be covered, is approximately 45 minutes.
8. If the adhesive is allowed to remain uncovered after initially drying to touch, for periods longer than the recommended 45 minutes, a loss in adhesion strength will result. Care must be taken by the installer not to spread more than can be worked appropriately within the 45 minute time frame.
9. Installation of this product on non-porous sub-floors utilizing a wet application of adhesive is **Not** recommended or warranted.

Vinyl tile, vinyl plank, linoleum and linoleum tiles.

1. Follow trowel recommendations listed on 4600 trowel chart.
2. 4600 is recommended for porous and non-porous applications of vinyl tile, vinyl plank, linoleum, and linoleum tile.
3. For porous applications, once troweled the adhesive should be allowed to remain open (flash-off) for approximately 5-10 minutes before placement of the flooring material.
4. Once placed, the material should be rolled immediately utilizing a 100 pound three-section roller.
5. **Note:** It is the responsibility of the user to determine whether or not the sub-floor to be covered is porous. To determine if a sub-floor is porous, place two droplets of water in various areas. If the sub-floor is porous, the water will be absorbed within a few seconds.
6. For non-porous applications follow trowel recommendations as listed in 4600 trowel chart.
7. Non-porous installations require that the adhesive be allowed to dry to the touch, so that there is little or no transfer of adhesive to the finger.
8. Once the adhesive dries to the touch, it is ready to accept flooring material.
9. Rolling should take place immediately after the flooring material has been placed into the adhesive.
10. From the time the adhesive is allowed to dry to the touch, to the time it must be covered is approximately 45 minutes.
11. If the adhesive is allowed to remain uncovered, after initially drying to touch, for periods longer than the recommended 45 minutes a loss in adhesion strength will result. Care must be taken by the installer not to spread more adhesive than can be worked appropriately within the 45 minute time frame.

NOTE: If any question exists by the installer or floor covering dealer as to whether or not this product is appropriate, contact Para-Chem's Technical Service Department.

CLEAN-UP:

Soapy water followed by Mineral Spirits, or M-315 Cleaner.

DO NOT APPLY SOLVENT DIRECTLY TO FLOORING MATERIAL.

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

COVERAGE AND TROWEL RECOMMENDATION:

Approx. 100 sq. ft./gal with 1/16" square notch
 Approx 150 sq. ft./gal with 1/16"x1/16"x1/16" V-notch
 Approx 250 sq. ft./gal with 1/16"x1/32"x1/32"

TROWEL RECOMMENDATIONS FOR 4600

Homogeneous Sheet Vinyl (Vinyl Backed) Carpets	All	1/16" x 1/32" x 1/32" U-Notch
PVC Backed Carpet and Carpet Tiles All Products		1/16" x 1/16" x 1/16" V-Notch

Vinyl Tile and Vinyl Plank

Gauge	Porous	Non-Porous
Greater than .080"	1/16" x 1/16" x 1/16" Sq Notch	1/16" x 1/16" x 1/16" V-Notch
Greater than 0.050"-0.080"	1/16" x 1/16" x 1/16" V-Notch	1/16" x 1/32" x 1/32" U-Notch
0.050" or Less	1/16" x 1/32" x 1/32" U-Notch	1/16" x 1/32" x 1/32" U-Notch

Linoleum and Linoleum Tile

Gauge	Porous	Non -Porous
Greater than 0.080"	1/16" x 1/16" x 1/16" Sq Notch	1/16" x 1/16" x 1/16" Sq Notch
Less than or equal to 0.080"	1/16" x 1/16" x 1/16" V-Notch	1/16" x 1/16" x 1/16" V-Notch

Vinyl Skin Backed Resilient Sheet Goods

Porous	Non-Porous
1/16" x 1/16" x 1/16" V-Notch	1/16" x 1/32" x 1/32" U-Notch

PHYSICAL PROPERTIES:

Freeze Thaw 5 cycles @ 0°F
 Shelf Life 1 yr @70°F in un-opened container
 Open Time: Up to 45 minutes (Once dry to the touch) depending upon sub-floor porosity, temperature and humidity conditions and ventilation.

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

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FIVE YEAR NO-NONSENSE WARRANTY, GOOD AS GOLD WARRANTY

4600 is warranted against cohesive failure (loss of bond) and formulated so as not to discolor or cause adhesive-induced staining in today's felt or vinyl backed sheet flooring and/or vinyl composition floor tile for five years from the date of installation if flooring is professionally installed according to manufacturer's guidelines, CRI-104, 105 ASTM F-710 and RFCI suggested practices. This limited warranty covers materials and reasonable labor costs for five years (materials meaning same type and grade if available). If unavailable or discontinued, Para-Chem reserves the right to pay dollar amount of initial purchase.

CONSEQUENTIAL/INCIDENTAL DAMAGE EXCLUSION

Para-Chem excludes and will not pay consequential or incidental damages under this limited 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. The warranty against cohesive failure, staining or discoloration are the exclusive warranties offered by Para-Chem. All other warranties, including the warranties of merchantability and fitness for a specific purpose, are specifically disclaimed and there are no other warranties regarding these products, express or implied.

MATERIAL SAFETY DATA SHEET

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*Para-Chem[®], PO Box 127, Simpsonville, SC 29681
24-Hour Emergency Telephone: (864) 967-7691*

SECTION 1. PRODUCT IDENTIFICATION

PRODUCT NAME: Fusion Series 4600 Vinyl Back Floor Covering 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>
None				

SECTION 3. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY: Eyes, skin.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.
POTENTIAL HEALTH EFFECTS:
EYE CONTACT: May cause slight irritation.
SKIN CONTACT: May cause slight irritation.
INGESTION: May cause gastric distress.
INHALATION: May cause respiratory irritation.
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, CO₂, dry chemical, and chemical foam.
DECOMPOSITION PRODUCTS: Dried material may produce CO, CO₂.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spill. Scoop or shovel into secure container(s) for recovery or disposal. Dispense sand, sawdust, or vermiculite and absorb 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: Safety glasses or chemical splash goggles.

SKIN PROTECTION: Gloves

RESPIRATORY PROTECTION: Not normally required with good ventilation.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (°F): 212

SPECIFIC GRAVITY (WATER = 1): 1.12

VAPOR PRESSURE: Same as water.

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

% VOLATILE BY WEIGHT: 35

pH: 8.8

APPEARANCE AND ODOR: White colored paste with little or no odor.

SECTION 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

SECTION 11. TOXICOLOGICAL INFORMATION

No information available

MATERIAL SAFETY DATA SHEET

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SECTION 12. ECOLOGICAL INFORMATION

No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State and Local regulations.

SECTION 14. TRANSPORT INFORMATION

For domestic transportation purposes, this product is not designated as a hazardous material by the U.S. Department Of Transportation.

SECTION 15. REGULATORY INFORMATION

TSCA: The components of this product are listed on the TSCA inventory.

SARA TITLE III:

Section 311 and 312 Health and Physical Hazards:

Immediate	Delayed	Fire	Pressure	Reactivity
[]	[]	[]	[]	[]

Section 313: Contains no components at or above EPA reporting thresholds.

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.

SECTION 16. OTHER INFORMATION

HMIS RATINGS: Health = 1 Flammability = 0 Reactivity = 0

Personal Protective Equipment = B

Hazard rating scale: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe

Para-Chem, Inc. believes the statements, technical information and recommendations contained herein are reliable. They are given without warranty or guarantee of any kind, expressed or implied.

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PREPARED BY: R. W. Smith, Jr.