

## PREMIUM PRESSURE SENSITIVE FLOORING ADHESIVE FOR:

- **Multi-Ply Engineered Plank**
- **Foam-Back Multi-Ply Engineered Plank**
- **Foam-Back Parquet**
- **Plain-Back Parquet**

PROFLEX MFA spreads very easily. Expect little or no “grab” from the adhesive initially. As PROFLEX dries, it becomes increasingly tacky, ultimately producing a very aggressive grab. Working installation time is several hours. Keep the adhesive surface clean of dust, dirt or anything that may hinder a good bond. The time it takes PROFLEX MFA to attain its aggressive grab will differ with temperature, humidity, moisture content of the subfloor and the trowel size used. At 70° F and 50% humidity it will take approx. 45 minutes to one hour for PROFLEX MFA to become tacky. Fans can be used to create air flow and speed up drying time. Do not allow construction dust to settle on the adhesives surface.

### Approved Subfloors

- Plywood
- A.P.A. standard underlayment particle board
- Terrazzo
- Lightweight concrete (coated with latex primer)
- Existing vinyl tile flooring
- Existing fully adhered, non-cushioned sheet vinyl
- Underlayment grade O.S.B.
- Concrete; above, or on-grade in the absence of excessive moisture and alkalinity
- **PROFLEX does not approve using PROFLEX MFA over ceramic tile**

- **Luxury Vinyl Tile**
- **Luxury Vinyl Plank**
- **Acrylic Impregnated Wood**
- **Cork Tile and Cork Underlayment**

**Warranty:** This product is warranted to be free of manufacturing defects. If a manufacturing defect is found within one year from the date of purchase, such defective product shall be replaced. No warranty either expressed or implied is made regarding the performance of this product since conditions under which these goods are transported, stored, used or applied are beyond our control. This warranty is made in lieu of all other warranties either expressed or implied and the seller shall not be responsible for consequential, incidental, special or other damages no matter what the cause.

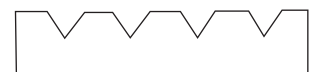
These directions are general guidelines for flooring installations. It is the responsibility of the installer to determine proper drying time of the adhesive, trowel size to be used and acceptability of subfloor conditions. Installations must also be in accordance with flooring manufacturers recommendations. Only flooring that is approved for glue down installations by the flooring manufacturer can be used with PROFLEX. Floors installed with PROFLEX are not warranted against damage caused by wet mopping, flooding, plumbing leaks or other extraordinary circumstances. For any installation not herein recommended, contact PROFLEX Products, Inc. before proceeding.



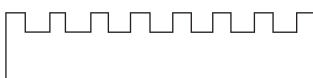
**Cork Tile (greater than 1/4")  
/Parquet/Foam-Backed  
Multi-Ply Engineered Plank**  
1/8" x 1/8" x 1/8" U notched  
80 sq. ft./gallon spread rate



**Engineered Plank**  
3/16" x 1/4" on 1/2" V notched  
60 sq. ft./gallon spread rate



**Cork Tile (up to 1/4")/  
Foam-Backed Parquet/  
Cork Underlayment**  
3/32" x 3/32" x 3/32" V notched  
120 sq. ft./gallon spread rate



**Vinyl Tile and Vinyl Plank  
(over porous substrates)**  
1/16" x 1/16" x 1/16" square notched  
Approx. Up to 200 sq. ft./gallon spread rate



**Vinyl Tile and Vinyl Plank  
(over non-porous substrates)**  
1/16" x 1/32" x 1/32" U notched  
Approx. 300 sq. ft./gallon spread rate

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## **SUBFLOOR REQUIREMENTS**

- All subfloors must be smooth, dry, clean, flat and free of dirt, grease, wax, paint, oil or anything that would hinder a good bond. Trisodiumphosphate (TSP) can be used to clean vinyl surfaces. Concrete subfloors not meeting this standard must be scoured with 3 1/2 open coat paper (20 grit), then vacuumed clean.
- When installing over existing hard surface floors, remove finish to allow a good mechanical bond.
- Do not install over old “cutback” petroleum adhesives. These must be removed completely or covered with a portland cement leveling compound.
- When installing wood flooring over gypsum based levelers, the gypsum must first be sealed/primed and allowed to dry prior to installation of wood flooring (see gypsum manufacturer’s instructions for recommended sealer/primer).
- Complete drying of leveling compounds is critical before installation. While curing time may only take a few hours, the complete drying time of these compounds can take 24 hours or more. Please read manufacturer’s instructions.
- MFA is not suitable for Radiant-heated subfloors.
- Epoxy and poured vapor barriers may leave an oily residue after application, which should be removed. The vapor barrier’s surface should be abraded or lightly sanded and cleaned thoroughly. When installing over a nonporous subfloor, additional flash off is needed.
- When using new sheet vinyl as a moisture barrier over concrete, a vinyl primer must be applied. Refer to manufacturer’s instructions and limitations.
- If there is a concern about adhesion to any subfloor, install a test area before installing the entire floor.
- Subfloors must be flat to 3/16" in a 10' radius or 1/8" within a 6' radius.
- Remove any high spots with a terrazzo grinder or sander and fill any low spots with a good quality cementitious based latex patch mix.
- Thorough examination for excessive moisture in all subfloors is essential.
- Look around for visible water stains on the drywall and subfloor, particularly on concrete. PROFLEX does not warrant the installation of PROFLEX adhesives over non-approved concrete sealers and coatings. For more information contact PROFLEX Technical Services.
- Checking for and avoiding excessive moisture in every subfloor must be done. PROFLEX requires the use of moisture tests on all concrete and wood subfloors. It is important that the subfloor's moisture percentages do not exceed the flooring manufacturer's or PROFLEX's recommendations, whichever is lowest. If excessive moisture is present use an appropriate vapor barrier. All moisture tests must be documented prior to installation for PROFLEX warranty to be in effect. After moisture testing of the concrete subfloor is complete, if moisture is above limitations, a PROFLEX Concrete Moisture Control System is required. For more information, contact PROFLEX Technical Services at 877-577-6353.
- The ASTM 1869 Calcium Chloride Test measures moisture emission in concrete. The maximum level for moisture emission when installing wood flooring is 3 pounds per 1,000 square feet over 24 hours, per the ASTM 1869 Calcium Chloride Method Test. The maximum level for moisture emission when installing cork flooring, luxury vinyl tile, luxury vinyl plank and all approved underlayments is 3 pounds per 1,000 square feet over 24 hours per the ASTM 1869 Calcium Chloride Method Test.
- PROFLEX recommends using a relative Humidity testing for reliable concrete testing. PROFLEX MFA allows for up to 75% Relative Humidity (RH), per the ASTM 2179 Relative Humidity Test.
- Moisture in wood subfloors should be measured with a wood moisture meter. The moisture content should not exceed 12%. Subfloors should be within 5% of the wood flooring's moisture content. read flooring manufacturer's moisture standards. a moisture meter can also be used to measure moisture in concrete.

**Follow the instructions carefully. Moisture meters measure wood and concrete differently.**

## WOOD INSTALLATIONS

- Multi-Ply Engineered Plank
- Acrylic Impregnated Multi-Ply Engineered Plank (up to 5" wide and 5' in length)
- Acrylic Impregnated Plain- Back Parquet
- Foam-Backed Parquet
- Plain-Back Parquet
- Foam-Backed Multi-Ply Engineered Plank

PROFLEX MFA cannot be used to install bamboo, exotic woods, solid wood planks or solid shorts.

- Wood flooring should acclimate to "live in" temperature and humidity conditions (please check manufacturer's specifications). Job site environment should be at "live in" condition during and after installation. PROFLEX strongly recommends keeping environment at "live in" conditions at all times.
- To start installation, create a starting line and secure a straight edge or backer board at this line.
- The adhesive should flash off for 30 to 60 minutes before installation. Adhesive is properly flashed off when it can be touched lightly with no transfer to the finger. Flashing off the adhesive allows less moisture to be introduced to the wood.
- When installing any engineered plank 3/8" or less in thickness, prefinished solid parquet, engineered maple flooring, or any wood flooring over a nonporous subfloor, additional flash off is needed. Let the adhesive flash until it becomes tacky. This will allow less moisture to be introduced to the wood flooring.
- Sliced or sawn veneer engineered plank and solid 5/16" parquet wood flooring are more moisture sensitive. Additional flash time of PROFLEX MFA may be required when installing these products. These products may show effects of the moisture from the adhesive for a few days.
- Lay wood into the adhesive. There may be a need to secure the first row of flooring when installing. Wood may "slip and slide" when first laying into PROFLEX MFA. Keep the flooring tight as you install. Install wood against the backer board secured at the starting line. The first five or six rows should be interlocked with releasable or painter's tape (Check with wood manufacturer for list of approved tape manufacturers), securing the floor from movement during installation. Continue to use tape as necessary.
- As you install, periodically check for proper adhesive transfer. Occasionally pick up a board and look for at least 75% transfer to the back of the wood. If there is not enough transfer, lightly coat the adhesive surface with additional PROFLEX MFA using a paint roller, paint brush or rag. This will ensure proper adhesive transfer.

- As PROFLEX MFA dries, it will become tacky and gain "memory". The wood flooring may spring apart during installation. Should this occur, lightly coat the tacky adhesive, as you proceed, with additional PROFLEX MFA. Apply a light coating with a paint roller, paint brush or rag. This will "lubricate" the adhesive's surface and allow the flooring's tongue and groove to slide together tightly and easily. This procedure can be implemented on completely dry PROFLEX MFA as well.

- Some wood may lift at the floor edges and may not adhere in some areas immediately after installation. There is no need to weigh down these areas. As PROFLEX MFA dries to an aggressive grab, the flooring will lay flat and successfully bond to the subfloor.
- Allow for expansion space in all wood flooring installations. Follow manufacturer's recommendations.
- When the installation is complete, block edges with wedges or cork stripping to hold floor tightly in place. Remove wedges after floor has set to allow for normal expansion.
- PROFLEX DOES NOT recommend rolling the wood floor immediately after installation.
- Allow flooring to "breathe". Do not cover floor with nonporous material such as plastic or vinyl.
- Allow unfinished wood flooring to acclimate to its new environmental conditions prior to sanding.
- Restrict heavy traffic and furniture placement for 24 hours after installation

### **Installing wood parquet flooring or multiply engineered plank over foam underlayments for sound insulation:**

Using a 3/32" x 3/32" x 3/32" v-notched trowel, spread adhesive to the subfloor. Allow PROFLEX MFA to flash until it becomes tacky. Cut the foam in 4' lengths. Lay out the foam onto the adhesive and hand smooth. Insure that the foam is in full contact with the adhesive surface and that there are no air bubbles under the foam. Allow adhesive to set prior to proceeding to wood floor installation. It is highly recommended to allow at least 18 hours prior to installation of the wood floor. Using PROFLEX's recommended trowel, spread the adhesive on the foam's surface. Allow PROFLEX MFA to flash, then install flooring. When installing foam-backed parquet with PROFLEX MFA, PROFLEX recommends the use of a 3/32" x 3/32" x 3/32" v-notched trowel. When installing foam-backed multiply engineered plank PROFLEX recommends the use of a 1/8" x 1/8" x 1/8" u notched trowel.

**Please Note:** As PROFLEX MFA cures, the bond between wood flooring and subfloor grows stronger and stronger. Any initial endlifting will disappear during this curing process. The time it takes PROFLEX MFA to reach its ultimate bond strength will vary with job site environmental conditions and may take several days.

## CORK TILE INSTALLATIONS

- Check with cork manufacturer for moisture testing, acclimation and other special installation instructions.
- Area to receive flooring should always acclimate to "live in" temperature and humidity conditions.
- When installing cork flooring using PROFLEX MFA, the adhesive must be used as a contact adhesive. Begin by spreading PROFLEX MFA on the sub floor using the appropriate trowel and allow the adhesive to completely dry. It will change from white to translucent when dry. Ensuring the adhesive is thoroughly dry will help prevent moisture being transferred to the tile. Drying time will vary with the temperature and humidity conditions. After the adhesive has thoroughly dried on the sub floor apply a thin coat of adhesive to the back of the cork tiles using a paint bush or paint roller. Allow adhesive on the back of the cork to flash for approximately 15 minutes before installing the tiles. Roll the flooring during and immediately after installation. Allow for recommended expansion space.

- 1) When installing cork tiles up to 1/4" in thickness use a 3/32" x 3/32" x 3/32" v notch. Spread rate 120 square feet per gallon.
- 2) When installing cork tiles greater than 1/4" in thickness use 1/8" x 1/8" x 1/8" U notch. Spread rate 80 square feet per gallon.

## CORK UNDERLAYMENT INSTALLATIONS

- Unroll cork and cut sections approximately 2" wide off roll. Vertically adhere this isolation barrier around the perimeter of the entire floor with PROFLEX MFA.
- Never mechanically fasten the isolation barrier with screws, nails or staples as this will severely diminish the acoustical values of the barrier.
- Cut cork to length and lay loosely over the area to be installed. Both ends of the roll must curl down towards the subfloor, if they curl up, turn the cork over. Butt the cork directly against the isolation barrier already installed.
- Pull the loose laid material back at least half the length of the roll. Using a 1/8" x 1.8" x 1/8" square-notched trowel for cork greater than 1/4", or a 3/32" x 3/32" x 3/32" v-notched trowel for 1/4" thick cork or less, apply PROFLEX adhesive to the subfloor. Allow PROFLEX MFA to flash for 30-40 minutes prior to placing cork into adhesive. Upon placing cork into the adhesive, roll both ways with a 100 lb roller. Repeat the installation for the other half of the subfloor, insuring all joints are butted together tightly.
- Allow adhesive to set prior to proceeding to wood floor installation. It is highly recommended to allow at least 18 hours prior to installation of the wood floor.

## LUXURY VINYL TILE & LUXURY VINYL PLANK FLOORING INSTALLATIONS

- PROFLEX MFA is a non-flammable, and water resistant pressure sensitive adhesive that provides a permanent aggressive bond.
- PROFLEX MFA will not prevent shrinkage or add to the dimensional stability of any flooring product. PROFLEX's warranty does not cover shrinkage of flooring products.
- Refer to all manufacturers' recommendations prior to installation to determine suitability of all materials to be used, approved substrates, acclimation and subfloor preparation, etc.
- When subfloor is porous, such as, lightweight concrete or gypcrete, adhesive absorption is a concern. Therefore it is required that all porous substrates, such as, lightweight concrete or gypcrete be sealer/primed with the manufacturer's recommended sealer/primer.
- Refer to all floor-covering manufacturer's recommendation regarding layout, cutting, seaming and maintenance.
- Spread the adhesive using the recommended trowel. For best results, allow adhesive to flash 30-45 minutes, depending on air flow and humidity, prior to installing the flooring pieces. Adhesive will begin to turn amber in appearance and be tacky to the touch. Proper flashing of the adhesive prevents trapping excessive moisture under flooring material. A fan can be used to speed up flashing. Do not allow construction dust or other contaminants to settle on the adhesive.
- Roll the floor covering as per manufacturer's recommendations.

**CLEAN-UP:** Wet adhesive can be removed with a damp cloth. Dry PROFLEX MFA can be removed with mineral spirits or a safe solvent. Hands and tools may be cleaned with "waterless hand cleanser" available at hardware and auto supply stores.

**VENTILATION:** Installers should provide adequate cross-ventilation during and for 24 hours after installation.

**KEEP FROM FREEZING:** While this adhesive is freeze thaw stable to 25° F (up to two cycles), it is necessary to keep from freezing. If the adhesive freezes, it cannot be used. It will become difficult to trowel, lumpy (or solid) and will not adhere to the floor.

**CAUTION:** V.O.C. 98 grams/liter. Xylene 6.75% (C.A.S. #133-20-7). Eye irritant: Avoid eye contact. In case of eye contact, flush eye with clean water for fifteen minutes. If irritation persists, get medical attention. Use with adequate ventilation. Keep out of reach of children.