Subfloor Prep

**Primers for Self-Leveling Underlayments**

- **High-Performance, 100%-Solids Epoxy Primer** for impervious substrates
- **Water-Based Epoxy Primer** for nonporous substrates

**Products**

- **Standard Gypsum-Based Floor-Patching Compound**
- **Ultraplan**
- **Fast-Setting Screed Mortar**
- **Mapecem**
- **Ready-to-Use, Accelerated-Cure Screed**
- **Topcem**
- **Planiprep**
- **Ultra Skimcoat**

**Product Selection Charts**

- **TM UltraSkimcoat**
- **Easy Premix**
- **1 Plus Fast-Setting**
- **Premium Fast-Drying, Cement-Based**

**Time Required Before Floor Installation**

- **(12 mm)** Ceramic, 30-60 minutes
- **(10 cm)** Thickness of 30-60 minutes
- **1/4” (6 mm)** minimum thickness, 1 hour

**LEGEND**

- **Adhesives**
- **Sound Control**
- **Wood Flooring**
- **Moisture Control**

Wood-flooring manufacturers have justifiable reasons why their transmissions.

Checking for moisture vapor transmission through a concrete slab by using calcium chloride test kits or relative-humidity meters may be a new concept for some installers. Most are conditioned to check that the wood flooring is acclimated to the ambient conditions and within tolerances expressed for many living environments, including multi-story high-rises and condos. When you are gluing down wood flooring in these types of applications, adding a sound-deadening finish on the floor. **DON’T** leave adhesive residue on the surface of the wood floor equal to the thickness of the floor itself. (it has happened!).

A general rule of thumb is to always leave a gap at the perimeter of the floor installation can cause significant problems. Using an installation accessory tools involved with this type of installation. However, when perimeter of a wood-floor installation can lead to complicated problems, of the floor installation.

Depressions with products like Quickpatch are a quick and easy method when all you need to do is control sound transmissions.

But the sound-control potential of wood-flooring is not transmitted through and down into living quarters below. Wood floors are finding their way into all types of buildings, including perimeterdaughter walls. When you are gluing down wood flooring to traditional subfloors is a relatively easy process. Adhering wood flooring to traditional subfloors is a relatively easy process.

**And Wood**

Wood resinous adhesives, which are water-based, require 30-60 minutes to set. When using a urethane adhesive, which aggressively holds on once cured, **DON’T** forget about the neighbors below you.

Wood-flooring manufacturers have justifiable reasons why their transmissions.

Checking for moisture vapor transmission through a concrete slab by using calcium chloride test kits or relative-humidity meters may be a new concept for some installers. Most are conditioned to check that the wood flooring is acclimated to the ambient conditions and within tolerances expressed for many living environments, including multi-story high-rises and condos. When you are gluing down wood flooring in these types of applications, adding a sound-deadening finish on the floor.

**DON’T** leave adhesive residue on the surface of the wood floor equal to the thickness of the floor itself. (it has happened!).

A general rule of thumb is to always leave a gap at the perimeter of the floor installation can cause significant problems. Using an installation accessory tools involved with this type of installation. However, when perimeter of a wood-floor installation can lead to complicated problems, of the floor installation.

Depressions with products like Quickpatch are a quick and easy method when all you need to do is control sound transmissions.

But the sound-control potential of wood-flooring is not transmitted through and down into living quarters below. Wood floors are finding their way into all types of buildings, including perimeterdaughter walls. When you are gluing down wood flooring to traditional subfloors is a relatively easy process. Adhering wood flooring to traditional subfloors is a relatively easy process.

**And Wood**

Wood resinous adhesives, which are water-based, require 30-60 minutes to set. When using a urethane adhesive, which aggressively holds on once cured, **DON’T** forget about the neighbors below you.
**Moisture Control**
MAPEI's robust offering of high-performance moisture barriers and fast-track construction products are designed to give your wood floor the best protection from hidden subfloor moisture problems.

*Planiseal™ EMB*
Premium Epoxy Moisture Barrier for Concrete Substrates

**Subfloor Prep**
Ensuring that your subfloor is flat and defect-free will improve the bonding performance using any of MAPEI's wood-flooring adhesives. It will also help avoid hollow-sounding spots that come from not getting proper contact between the wood flooring and the adhesive bed. MAPEI's product offerings in this category cover all subfloor preparation requirements from moist slabs, to minor repairs, to full-scale leveling.

*Mapecem® Quickpatch*
High-Performance, High-Flow Concrete Patch

*Planiprep™ FF*
Premium Skimcoating and Patching Compound

**Sound Control**
Wood flooring is the product of choice for many living environments, including multi-unit housing. MAPEI excels at reducing the sound transmissions through the floor into living quarters below.

*Mapeguard™ 2*
Premium Crack-Isolation and Sound-Reduction Sheet Membrane

*MAPEI SM Primer™*
Water-Based Primer for MAPEI Peel-and-Stick Membranes
Hybrid-Polymer-Based, Moisture-Control and Sound-Reducing Wood-Flooring Adhesive

Ultrabond ECO 985 is MAPEI’s premium single-component, hybrid-polymer-based wood-flooring adhesive that is formulated without water, solvents, amines, isocyanates, phthalate plasticizers or epoxy resins, and has an extremely low emission level of volatile organic compounds. Ultrabond ECO 985’s formulation provides excellent sound-reduction properties that are required for multi-unit housing. Ultrabond ECO 985 is also a moisture-controlling wood-flooring adhesive that protects wood flooring from moisture vapor emitting through concrete slabs in a single application.

Features and Benefits
- Isocyanate-free with extremely low odor and negligible volatile organic compound (VOC) content
- Controls subfloor moisture up to 15 lbs. (6.80 kg) moisture vapor emission rate (MVER) and 85% relative humidity (RH)
- Reduces sound transmissions through concrete subfloors with STC and IIC values in excess of building code requirements
- Easy to apply with excellent trowel-ridge holdout
- Cleans up easily from hands and prefinished wood flooring
- Utilizes rapidly renewable raw materials
- Approved for use with all types of solid hardwood and exotic planks or shorts, parquet, bamboo flooring, acrylic impregnated wood and laminated plank, cork, and all sizes of engineered wood flooring
- Approved for use with ceramic tile and stone in mixed media installations using wood flooring

Premium Moisture-Control, Sound-Reduction and Wood-Flooring Adhesive

Ultrabond ECO 995 is MAPEI’s premium, 100%-solids, one-component, moisture-curing urethane adhesive for all types of wood flooring and bamboo. Ultrabond ECO 995 can be used in a single-coat application method that provides a superior bond and moisture vapor emission control on concrete slabs (up to 15 lbs. [6.80 kg] in MVER or 85% relative humidity). Ultrabond ECO 995 also provides sound-reduction properties, making it suitable for use in multi-unit housing projects. The formulation of Ultrabond ECO 995 has been developed using rapidly renewable raw materials and provides the ultimate in bonding environmentally sensitive wood flooring.

Features and Benefits
- Moisture barrier, sound reduction and bonding system in a single product
- 100%-solids formulation; no solvent added
- Utilizes rapidly renewable raw materials
- Excellent green strength to hold planks in place during installation
- Extremely low-odor formula with negligible volatile organic compound (VOC) content
- Moisture-control clip-on trowel attachment is affixed inside the bucket under the lid
- Approved for use with all types of solid hardwood and exotic planks or shorts; parquet; bamboo flooring; acrylic impregnated wood and laminated plank; cork underlayment; and all sizes of engineered wood flooring
- Approved for use with ceramic tile and stone for mixed media installations
Professional Urethane Wood-Flooring Adhesive

Ultrabond ECO® 980 is MAPEI’s 100%-solids, one-component moisture-curing urethane adhesive, recommended for mainstream wood-flooring installations. Ultrabond ECO 980’s formulation is perfectly suited for traditional solid wood flooring and engineered wood flooring of all sizes. Easy to trowel, Ultrabond ECO 980 exhibits quick grab to hold planks in place during installation, yet it provides enough slip time to align everything perfectly.

Features and Benefits
- Easy to trowel, with excellent trowel-ridge holdout for proper adhesive bonding
- 100%-solids formulation; no solvent added
- Utilizes rapidly renewable raw materials
- Excellent green strength to hold planks in place during installation
- Extremely low-odor formula with negligible volatile organic compound (VOC) content
- Approved for use with solid hardwood planks or shorts; parquet; acrylic impregnated wood and laminated plank; bamboo flooring; cork underlayment; and all sizes of engineered wood flooring
- Approved for use with ceramic tile and stone for mixed media installations using wood flooring

Professional Urethane Engineered-Wood-Flooring Adhesive

Ultrabond ECO® 975 capitalizes on MAPEI’s Ultragrip Technology™ and provides a lightweight, 100%-solids, one-component, moisture-curing urethane adhesive specifically designed for the installation of engineered wood flooring. Ultrabond ECO 975 reduces the pail weight by about 33% and yet provides similar coverage when compared with traditional urethane products. Ultrabond ECO 975 is easier to trowel, has excellent trowel-ridge hold, provides quick grab and offers excellent final bond strength.

Features and Benefits
- Approved for use with parquet; acrylic impregnated wood and laminated plank; cork underlayment; and all sizes of engineered wood flooring
- Lightweight formulation technology for easy transport and installation
- Utilizes rapidly renewable raw materials
- Easy to trowel, with excellent trowel-ridge holdout for proper adhesive bonding
- 100%-solids formulation; no solvent added
- Extremely low-odor formula with negligible volatile organic compound (VOC) content
- Approved for use with ceramic tile and stone for mixed media installations using wood flooring
**Ultrabond ECO® 960**

**Professional Engineered-Wood-Flooring Adhesive**

Ultrabond ECO 960 is a professional-grade, high-tack, high-solids wood-flooring adhesive specifically designed for the installation of traditional engineered wood floors. Use for the installation of engineered wood plank, acrylic impregnated plank and wood parquet.

**Features and Benefits**
- Approved for use with engineered wood flooring up to 5” (12.5 cm) in width; parquet; acrylic impregnated wood and laminated plank; and cork underlayment
- Easy to trowel with excellent trowel-ridge holdout for proper adhesive bonding
- High-solids formulation
- Cleans up with soap and water
- Excellent working time and rebond characteristics

---

**Ultrabond® 915**

**Premium Epoxy Repair Adhesive for Flooring**

Ultrabond 915 is a fast-curing, low-viscosity, 100%-solids, reactive adhesive designed to repair loose flooring and fill hollow spots in floor installations. Packaged in a convenient dual-cartridge assembly with a static mixer, Ultrabond 915 is easy to use and allows for repairs with a minimum amount of mess or damage to the surface of the flooring.

**Features and Benefits**
- Convenient dual-cartridge packaging with static mixer included
- 100%-solids with strong ultimate bond; compatible with flooring adhesives
- Low viscosity for better flow and void filling
- Cures within 30 to 60 minutes after application
- Less costly than full floor replacement
Ultrabond ECO® 905

Professional Wood-Flooring and Tackstrip Adhesive

Ultrabond ECO 905 is a fast-curing, 100%-solids, moisture-cured urethane gun-grade adhesive designed for basic wood subfloor construction practices as well as wood-flooring repair, wood stair nosings, wood molding, baseboards, and tackstrip attachment to concrete subfloors. Ultrabond ECO 905 is also a general-purpose construction adhesive suitable for use in both interior and exterior applications.

Features and Benefits

- Guns easily and is nonsag
- Low volatile organic compound (VOC) content and 100%-solids formulation
- Fast-curing for overnight repairs
- High bond strength
- Moisture-resistant
- Suitable for use for interior and exterior application
### Patching and Skimcoating Products

<table>
<thead>
<tr>
<th>Product</th>
<th>Thickness of Repair</th>
<th>Time Required Before Floor Installation</th>
<th>Ceramic</th>
<th>Carpet, Resilient and Wood</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Planitex™ UNS</strong> Standard Gypsum-Based Floor-Patching Compound</td>
<td>0-1/2” (12 mm)</td>
<td>40-60 minutes</td>
<td>40-60 minutes</td>
<td></td>
</tr>
<tr>
<td><strong>Planipatch</strong> Fast-Setting, Polymer-Modified, Cement-Based Patching Compound</td>
<td>0-1” (2.5 cm)</td>
<td>1 hour</td>
<td>1 hour</td>
<td></td>
</tr>
<tr>
<td><strong>Ultra Skimcoat™</strong> Premium Fast-Drying, Cement-Based Skimcoating Compound</td>
<td>0-4” (10 cm)</td>
<td>1 hour</td>
<td>1 hour</td>
<td></td>
</tr>
<tr>
<td><strong>Planiprep™ FF</strong> Premium Skimcoating and Patching Compound</td>
<td></td>
<td>30-60 minutes</td>
<td>30-60 minutes</td>
<td></td>
</tr>
<tr>
<td><strong>Mapecem® Quickpatch</strong> High-Performance, High-Flow Concrete Patch</td>
<td>1/4” (6 mm) minimum thickness</td>
<td>4-6 hours</td>
<td>16 hours</td>
<td></td>
</tr>
<tr>
<td><strong>Topcem™ Premix</strong> Ready-to-Use, Accelerated-Cure Screed</td>
<td></td>
<td>24 hours</td>
<td>48 hours</td>
<td></td>
</tr>
<tr>
<td><strong>Mapecem Premix</strong> Fast-Setting Screed Mortar</td>
<td></td>
<td>3-4 hours</td>
<td>16-18 hours</td>
<td></td>
</tr>
</tbody>
</table>

**LEGEND** • = Premium

### Self-Leveling Underlayment

<table>
<thead>
<tr>
<th>Product</th>
<th>Requires Surface Profiling</th>
<th>Thickness of Repair</th>
<th>Time Required Before Floor Installation</th>
<th>Ceramic</th>
<th>Carpet, Resilient and Wood*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Planitex SL 35</strong> Engineered Gypsum Self-Leveling Underlayment</td>
<td>No</td>
<td>1/4” to 3’ (6 mm to 7.5 cm)</td>
<td>3-5 days</td>
<td>5-7 days**</td>
<td></td>
</tr>
<tr>
<td><strong>Novoplan™ 2</strong> Professional Self-Leveling Underlayment</td>
<td>CSP 3</td>
<td>Featheredge to 1’ (2.5 cm)</td>
<td>24 hours</td>
<td>2-3 days</td>
<td></td>
</tr>
<tr>
<td><strong>Ultraplan™ 1 Plus</strong> High-Performance, Quick-Setting, Self-Leveling Underlayment</td>
<td>CSP 3</td>
<td>Featheredge to 1-1/2’ (3,8 cm)</td>
<td>4 hours</td>
<td>16-24 hours</td>
<td></td>
</tr>
<tr>
<td><strong>Novoplan Easy</strong> Easy-Preparation, Self-Leveling Underlayment</td>
<td>No</td>
<td>Featheredge to 1-1/2’ (3,8 cm)</td>
<td>24 hours</td>
<td>36-48 hours</td>
<td></td>
</tr>
<tr>
<td><strong>Ultraplan™ Easy</strong> High-Performance, Easy-Preparation, Self-Leveling Underlayment</td>
<td>No</td>
<td>Featheredge to 2’ (5 cm)</td>
<td>4 hours</td>
<td>16-24 hours</td>
<td></td>
</tr>
</tbody>
</table>

* Standard installation conditions apply. Refer to individual TDS for further details.
** See TDS and moisture test to validate readiness.

### Primers for Self-Leveling Underlayment

<table>
<thead>
<tr>
<th>Primer</th>
<th>Description</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primer L™</strong></td>
<td>Advanced-Technology Acrylic Latex Primer for Concrete</td>
<td>For porous substrates</td>
</tr>
<tr>
<td><strong>Primer T™</strong></td>
<td>All-Purpose Primer for Self-Leveling Underlayment</td>
<td>For all types of substrates</td>
</tr>
<tr>
<td><strong>Primer WE™</strong></td>
<td>Water-Based Epoxy Primer</td>
<td>For nonporous substrates</td>
</tr>
<tr>
<td><strong>Primer E™</strong></td>
<td>High-Performance, 100%-Solids Epoxy Primer</td>
<td>For impervious substrates</td>
</tr>
</tbody>
</table>
### Wood and Cork Adhesives

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Fringe Joint Parquet</th>
<th>Engineered</th>
<th>Solid Wood</th>
<th>Bamboo</th>
<th>Exotic Wood – Teak</th>
<th>Cork Underlayment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultrabond ECO® 960</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
<td>❌</td>
<td>❌</td>
</tr>
<tr>
<td>Professional Engineered-Wood-Flooring Adhesive</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ultrabond ECO 975</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
</tr>
<tr>
<td>Professional Urethane Engineered-Wood-Flooring Adhesive</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ultrabond ECO 980</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
</tr>
<tr>
<td>Professional Urethane Wood-Flooring Adhesive</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ultrabond ECO 995</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
</tr>
<tr>
<td>Premium Moisture-Control, Sound-Reduction and Wood-Flooring Adhesive</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ultrabond ECO 985</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
</tr>
<tr>
<td>Hybrid-Polymer-Based, Moisture-Control and Sound-Reducing Wood-Flooring Adhesive</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Legend**  
- ✔️ = Professional  
- ✰ = Moisture Control and Bond

---

**DO** check for moisture vapor emissions or relative humidity of the concrete subfloor.  
This is not a common step performed by the majority of wood floor installers. Most are conditioned to check that the wood flooring is acclimated to the ambient conditions and within tolerances expressed by industry experts (such as NWFA) for nailing or stapling to a subfloor. The tools used for this process are called penetrating moisture meters, but these same tools provide little, if any, information about the moisture condition of a concrete subfloor.  
Checking for moisture vapor transmission through a concrete slab by using calcium chloride test kits or relative-humidity meters may be a new procedure to most hardwood installers. Missing this step on a glue-down installation can cause significant problems. Using an installation product like Ultrabond ECO® 995 or Ultrabond ECO 985 is an excellent means to ensure that even if this step is missed, the floor will be protected from most subfloor moisture problems.

**DO** make sure that the floor is smooth, flat and defect-free.  
Wood flooring is a rigid material that does not conform to the subfloor it is installed over. This is especially important to understand when gluing wood flooring to any substrate. If the substrate has any high spots or depressions, the adhesive may not be able to reach up and contact the back of the wood flooring properly. If this happens, the end result will be a hollow spot or even a noisy, creaking surface when it is walked over. Because dried urethane adhesives will not re-adhere, the only way to correct this type of problem is to inject glue under the hollow spot or, in some severe cases, actually remove part of the flooring to re-adhere it.  
Using a self-leveling underlayment like Ultraplan® Easy high-performance, easy-prep, self-leveling underlayment will ensure that the subfloor is very smooth and flat, and it can almost guarantee that you will never get hollow spots. At minimum, you can level low spots and depressions with products like Mapecem® Quickpatch high-flow concrete patch for quick fixes.

---

**DON’T** forget to leave an expansion joint around the perimeter of the floor installation.  
Wood is a “natural” product, unlike carpet or resilient flooring. As a consequence, it is sensitive to changes in temperature and especially humidity. Forgetting to leave the required expansion joint around the perimeter of a wood-floor installation can lead to complicated problems, the least of which could be that the wood floor lifts from the subfloor to create a dome effect and an installation failure. The worst-case scenario is that the wood floor actually pushes walls off their foundations (it has happened!).  
A general rule of thumb is to always leave a gap at the perimeter of the wood floor equal to the thickness of the floor itself.

**DON’T** leave adhesive residue on the surface of the prefinished wood flooring.  
Adhering wood flooring to traditional subfloors is a relatively easy process: You don’t need nails, staplers, compressors and all the various accessory tools involved with this type of installation. However, when gluing wood flooring, be sure to remove any and all adhesive smudges from the surface while the adhesive is still wet. This is particularly true when using a urethane adhesive, which aggressively holds on once cured.  
Always keep a fresh, clean rag on hand and use a product such as MAPEI’s Ultrabond® Urethane Cleaner to keep a clean, pristine finish on the floor.

**DON’T** forget about the neighbors below you.  
Wood floors are finding their way into all types of buildings, including multi-story high-rises and condos. When you are gluing down wood flooring in these types of applications, adding a sound-deadening membrane before installing the wood will help ensure that surface noise is not transmitted through and down into living quarters below.  
A proven method for reducing surface sounds and impact noises while keeping the neighbors happy is to use Ultrabond ECO 995 or Ultrabond ECO 985.  
Another solution is to install Mapeguard™ 2 crack-isolation and sound-reduction membrane before adhering wood flooring. This is a quick and easy method when all you need to do is control sound transmissions.