



# Acoustical Surfaces, Inc.

Soundproofing, Acoustics, Noise & Vibration Control Specialists

123 Columbia Court North • Suite 201 • Chaska, MN 55318  
(952) 448-5300 • Fax (952) 448-2613 • (800) 448-0121

Email: [sales@acousticalsurfaces.com](mailto:sales@acousticalsurfaces.com)  
Visit our Website: [www.acousticalsurfaces.com](http://www.acousticalsurfaces.com)

We Identify and **S.T.O.P.** Your Noise Problems

**Product Description:** Quiet Floor™ Underlayment is approved for use in ceramic tile floor and glue-down or nail-down engineered hardwood and hardwood floor applications.

- Underlayment is recommended for Type II ceramic installations only. Do not use in shower pan applications or areas exposed to excessive moisture.
- Underlayment is recommended for ceramic, porcelain, and most natural stone floor tile applications.

## Installation Instructions

**1. Conditioning:** The underlayment and adhesives must be conditioned at 70 degrees Fahrenheit with the relative humidity between 25 and 65% for at least 24 hrs before and 72 hrs after installation.

**2. Approved Surfaces for Applications:**

**A. For Ceramic Tile:** Plywood, hardboard underlayment, concrete backer board, concrete above or below grade in the absence of excess moisture and/or excessive alkali, and well bonded VCT or sheet vinyl (non-embossed and non-cushioned). Wood sub floor structure must meet TCA (Tile Council of America) and local building code standards for quality and thickness.

**B. For Glued Down Engineered Wood Floors:** Plywood, hardboard underlayment, association grade particleboard, concrete above grade in the absence of excessive moisture and/or excessive alkali, and well bonded VCT and sheet vinyl (non-embossed and non-cushioned). Sub-floor must meet NWFA (National Wood Flooring Association) and local building code standards for quality and thickness.

**C. For Mechanically Fastened Hardwood or Engineered Hardwood:** Hardboard underlayment, concrete backer board, plywood or wood. Sub-floor must meet NWFA (National Wood Flooring Association) and local building code standards for quality and thickness.

**3. Surface preparation:** Floor must be clean, smooth, dry and free of foreign matter that would interfere with a good bond. Fill all cracks and depressions with a suitable floor patch. If adhesive removal chemicals have been used, make sure the floor has been properly rinsed and all chemical residues are removed. All existing cracks in excess of 1/16 inch must be properly repaired in accordance with TCA standards for ceramic installations and NWFA standards for hardwood and engineered hardwood flooring.

**4. Moisture:** All sub-floor assemblies should be tested for moisture vapor emission rates by utilizing anhydrous calcium chloride test kits for concrete, and a certified moisture meter for wood. Do not install flooring material when in excess of flooring manufacturers recommendations for moisture vapor emissions.

### Installation Method #1: Ceramic Tile (8" Square or Larger) on Concrete Sub-Floor

**Setting Materials:** Dry-set or latex-Portland Cement Mortar Bond Coat (Thin set mortar)

**Trowel Size:** Pad to sub-floor: 1/4" x 1/4" Square-notch. Tile to Pad: For tiles up to 12" x 12", use 1/4" x 1/4" Square-notch for flat back ceramic, quarry and vitreous; 1/4" x 3/8" Square-notch for ceramic, vitreous and natural stone tile including monocottera, ribbed, pavers and porcelain. For tile sizes above 12" x 12", follow bond coat manufacturer's instructions.

**Concrete Requirements:** Maximum variation of 1/4" in 10'. Deflection is not to exceed 1/360 of span. All cracks in excess of 1/16" must be filled as per TCA recommendations. Surface must be clean, dry and free of contaminants and sealers.

**Steps:**

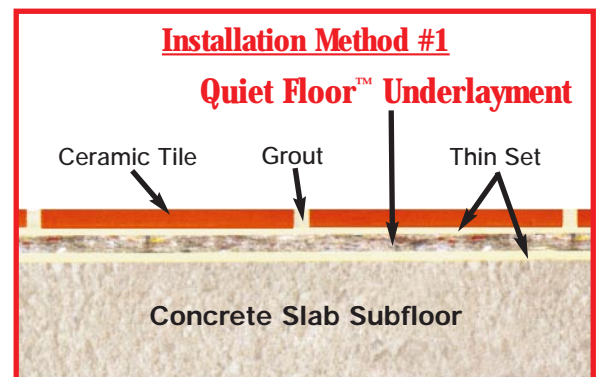
1. Roll out underlayment and trim to fit the floor using a sharp utility knife and a straight edge. Be sure to run the underlayment to the edges of the perimeter leaving no gaps.

2. Pull back pre-cut sections and use recommended trowel to spread setting materials in 4 to 6 foot sections. Roll the underlayment into the setting material.

3. After the entire surface is applied, roll the surface with a 35lb roller to establish good adhesion, making sure no ridges remain in the adhesive. If a roller is not available, apply appropriate downward pressure using a grout float.

4. Allow 24 hours drying time for Dry-Set Mortar and 3 to 4 hours for Latex-Portland Mortar.

5. Set and grout tile as per tile manufacturer and TCA recommendations.

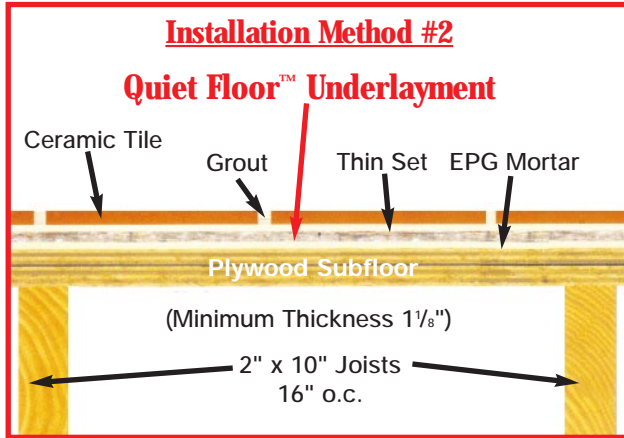


## Installation Method #2: Ceramic Tile (8" Square or Larger) on Plywood Sub-Floor

**Setting Materials:** EGP Latex Portland Cement Mortar (underlayment to floor). Dry set or Latex Portland Cement Mortar Bond Coat (Thin set mortar – tile to underlayment).

**Trowel Size:** Pad to sub-floor: 1/4" x 1/4" Square-notch. Tile to Pad: For tiles up to 12" x 12", use 1/4" x 1/4" Square-notch for flat back ceramic, quarry and vitreous; 1/4" x 3/8" Square-notch for ceramic, vitreous and natural stone tile including monocottera, ribbed, pavers and porcelain. For tile sizes above 12" x 12", follow bond coat manufacturer's instructions.

**Sub-Floor Requirements:** Sub-floor assembly must be a minimum of 1 1/8" in total thickness, with clean structurally sound plywood as the top surface. It must be free of all sealers and contaminants. Maximum variation of 1/8" in 10" with a 16" on center joist system. Deflection is not to exceed 1/360 of span.



### Steps:

1. Roll out underlayment and trim to fit the floor using a sharp utility knife and a straight edge. Be sure to run the underlayment to the edges of the perimeter leaving no gaps.
2. Pull back pre-cut sections and use recommended trowel to spread setting materials in 4 to 6 foot sections. Roll the underlayment into the setting material.
3. After the entire surface is applied, roll the surface with a 35lb roller to establish good adhesion, making sure no ridges remain in the adhesive. If a roller is not available, apply appropriate downward pressure using a grout float.
4. Allow 24 hours drying time for Dry-Set Mortar and 3 to 4 hours for Latex-Portland Mortar.
5. Set and grout tile as per tile manufacturer and TCA recommendations.

## Installation Method #3: Ceramic Tile (8" Square or Larger) with Cementitious Backer Unit (CBU)

**Setting Materials:** EGP Latex Portland Cement Mortar (underlayment to floor) Dry set or Latex Portland Cement Mortar Bond Coat (Thin set mortar – CBU to underlayment and tile to CBU)

**Trowel Sizes:** Pad to sub-floor: 1/4" x 1/4" Square-notch. Tile to Pad: For tiles up to 12" x 12", use 1/4" x 1/4" Square-notch for flat back ceramic, quarry and vitreous; 1/4" x 3/8" Square-notch for ceramic, vitreous and natural stone tile including monocottera, ribbed, pavers and porcelain. For tile sizes above 12" x 12", follow bond coat manufacturer's instructions.

**Sub-Floor Requirements:** Minimum 3/4" tongue and groove plywood, clean and structurally sound. Must be free of sealers and contaminants. Maximum variation of 1/4" in 10', with a 16 on center joist system.

### Steps:

1. Roll out underlayment and trim to fit the floor using a sharp utility knife and a straight edge. Be sure to run the underlayment to the edges of the perimeter leaving no gaps.

2. Pull back pre-cut sections and use recommended trowel to spread setting materials in 4 to 6 foot sections. Roll the underlayment into the setting material.

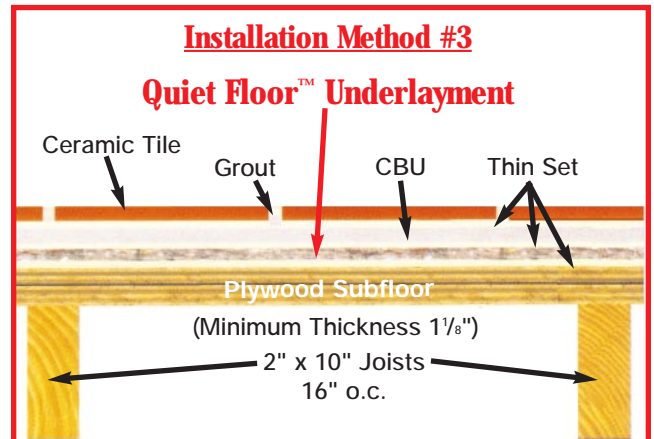
3. After the entire surface is applied, roll the surface with a 35lb roller to establish good adhesion, making sure no ridges remain in the adhesive. If a roller is not available, apply appropriate downward pressure using a grout float.

4. Allow 24 hours drying time for Dry-Set Mortar and 3 to 4 hours for Latex-Portland Mortar.

5. Apply Dry-Set or Latex Portland Cement Mortar to the top of the underlayment no larger than a single sheet of backer board.

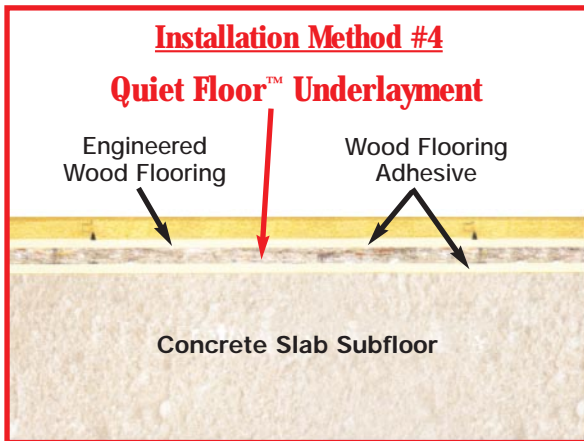
6. Apply backer board to mortar bed and secure with galvanized screws through the full assembly to the joist system.

7. Set and grout tile as per tile manufacturer and TCA recommendations.



## Installation Method #4: Engineered Wood on Concrete Sub-Floor

**Setting Material:** Latex Base or Urethane Wood flooring Adhesive



**Trowel Size:** 3/16" x 3/16" Square-notch or U-notch

**Sub-floor Requirements:** Maximum of 1/4" variance in 10', must be properly prepared per NWFA specifications. All cracks in excess of 1/16" must be filled. Surface must be clean, dry and free of contaminants and sealers.

**Steps:**

1. Roll out underlayment and trim to fit the floor using a sharp utility knife and a straight edge. Be sure to run the underlayment to the edges of the perimeter leaving no gaps.
2. Pull back pre-cut sections and use recommended trowel to spread setting materials in 4 to 6 foot sections. Roll the underlayment into the setting material.

3. After the entire surface is applied, roll the surface with a 35lb roller to establish good adhesion, making sure no ridges remain in the adhesive. If a roller is not available, apply appropriate downward pressure using a grout float.

4. Allow 2 hours drying time, or until the underlayment is bounded tightly to the floor.

5. Apply wood flooring as per flooring manufacturer and the NWFA recommendations.

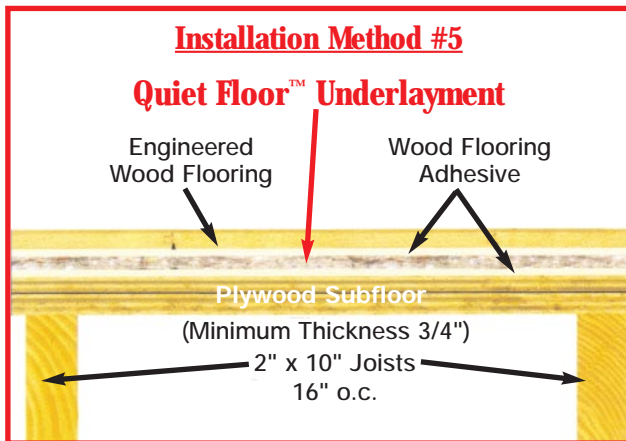
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## Installation Method #5: Engineered Wood on Plywood Sub-Floor

**Setting Material:** Latex Base or Urethane Wood flooring Adhesive

**Trowel Size:** 3/16" x 3/16" Square-notch or U-notch trowel

**Sub-floor Requirements:** Association grade particleboard or tongue and groove plywood with a minimum thickness of 3/4". It must be structurally sound and free of contaminants and sealers. Maximum variation of 1/4" in 10', with a 16" on center joist system.



**Steps:**

1. Roll out underlayment and trim to fit the floor using a sharp utility knife and a straight edge. Be sure to run the underlayment to the edges of the perimeter leaving no gaps.
2. Pull back pre-cut sections and use recommended trowel to spread setting materials in 4 to 6 foot sections. Roll the underlayment into the setting material.
3. After the entire surface is applied, roll the surface with a 35lb roller to establish good adhesion, making sure no ridges remain in the adhesive. If a roller is not available, apply appropriate downward pressure using a grout float.
4. Allow 2 hours drying time, or until the underlayment is bounded tightly to the floor.

5. Apply wood flooring as per flooring manufacturer and NWFA recommendations.

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## Installation Method #6: Mechanically Fastened Hardwood and Engineered Wood

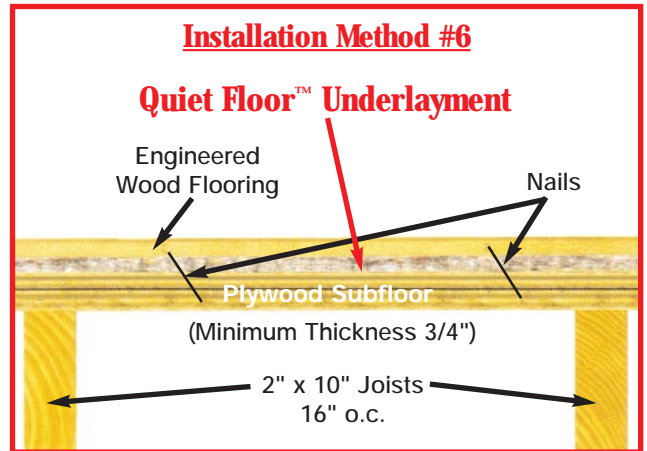
**Setting Materials:** None

**Trowel Size:** None

**Sub-Floor Requirements:** Tongue and groove plywood with a minimum thickness of 3/4". It must be structurally sound and free of contaminants and sealers. Maximum variation of 1/4" in 10', with a 16 on center joist system.

**Steps:**

1. Roll out underlayment and trim to fit the floor with a sharp utility knife and a straight edge. Be sure to run the underlayment to the edges of the perimeter leaving no gaps.
2. Seams should be butted together and not overlapped. Taping the seams with duct tape should not be necessary, but is not prohibited.
3. Install flooring as per flooring manufacturer and NWFA recommendations. Nail through the underlayment system to the joist system. Use the maximum length nails approved by the wood floor manufacturer.



**For installations not covered in these directions, consult Acoustical Surfaces, Inc. 1-800-448-3134 before installation. Installation not preformed within stated manner may void all warranties.**

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