



Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

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Suggested Specification ACOUSTIK™ Acoustic Subflooring

NOTES TO SPECIFIER

1. Specify **ACOUSTIK™** sound insulating floor underlayment system, for **INTERIOR** residential, commercial and institutional ceramic tile & stone installation.
2. Specify **Duro's DA5, Poly 300** fast-setting, reactive adhesive for setting **ACOUSTIK™** subflooring over properly prepared concrete, plywood, OSB and well supported industry approved substrates. Luan, gypsum based floor patching and leveling compounds, and ALL dimensionally unstable materials are not suitable substrates.
3. **For Commercial & Institutional floors (Detail A):** Specify **ACOUSTIK™** subflooring to be covered over with one layer of 12.5 mm (1/2") thick EXTERIOR Grade Plywood prior to the installation of the ceramic tile or stone floor. Specify plywood quality to be no less than A.P.A. rated GROUP 1, EXTERIOR GRADE Plywood, C.C. plugged or better conforming to US. Product Standard PS1-95 or COFI rated EXTERIOR GRADE plywood, SELECT or (SEL TF), conforming to CSA 0121 standard for Douglas fir. Specify only **ASI POLY 300 ADHESIVE** Fast-setting reactive adhesive for setting the plywood over **ACOUSTIK™** subflooring.
4. **For Residential "Heavy-duty" floors where heavy furniture or equipment is anticipated:** Consider and specify as for Commercial & Institutional floors (Detail A): (See "Note to specifier" 3.)
5. **For Residential light-duty floors (Details B & C):** Unless otherwise required by the tile or stone fabricator, specify tile or stone size to be no less than 300 x 300 mm (12" x 12"), gauged at 10 mm (3/8") or 12 mm (1/2") thickness where heavy furniture or equipment is anticipated. For residential bathroom floors and light duty floors, smaller size tiles may be specified if desired. Consult with the tile or stone manufacturer for recommendations prior to specifying.
6. Specify **ONLY** KERALASTICS/KERABOND® flexible acrylic latex Portland cement mortar system or KER 318 / GRANI/RAPID® flexible fast-setting latex HCT mortar system for setting tile or stone over **ACOUSTIK™** subflooring system. **Caution** Certain varieties of water sensitive stones and/or light-color marble may require EXCLUSIVELY **WHITE** mortar or KER 318 / GRANI/RAPID fast-setting HCT mortar system. When special sizes greater than 400 x 400 mm (16" x 16") and/or when very water-sensitive (Class 3) stones are required, (such as Green or "Rosso Levanto" marble), refer to the respective product data sheets or consult with MAPEI's Technical Service Department for details and recommendations before specifying.
7. When specifying KERALASTICS/KERABOND® flexible acrylic latex Portland cement mortar system, specify that the tiles or stone be grouted only 24 hours after installation.
8. When specifying KER 318 / GRANI/RAPID® flexible fast-setting latex HCT mortar, specify that the tiles or stone be grouted only 3 to 4 hours after installation.
9. Specify KER 700 ULTRA/COLOR® fast-curing, high early strength, polymer-modified sanded HCT tile grout (or KER 200 polymer-modified sanded grout mixed with water) with joints 3 mm (1/8") to 15 mm (5/8") wide. **DO NOT ALLOW BUTT JOINTS.** For COMMERCIAL FLOOR installation, specify joints to be between 5 mm (3/16") and 10 mm (3/8") wide and that all joints be thoroughly compacted and tooled.
10. Structural requirements for **CERAMIC TILE** or **DIMENSION STONE** installation require that all floor substrates be rigid and conform to secure and good engineering practices. Maximum allowable deflection is L/1360 when subjected to live and dead loads and should be uniform over the length of the span.
11. **ACOUSTIK™** subflooring, tile-setting mortars and grouts do not constitute a waterproof barrier and should not be considered as a replacement for a waterproof membrane. For information concerning PRP 315 thin, load bearing waterproof membrane, contact your ASI representative.
12. **ACOUSTIK™** subflooring, Tile, mortar and grout constitute a total system. Specify all materials by name and number as here indescrbed to ensure that specifications do not differ from the manufacturer's instructions and test data.
13. **INSERT THE FOLLOWING SPECIFICATION IN THE CONCRETE SECTION OF THE SPECIFICATION**
 - 13.1 No sealer or curing compound shall be used on concrete to be covered with ceramic tile or stone. Concrete shall be completely cured prior to the installation of **ACOUSTIK™** subflooring. Concrete floor surfaces shall have a light broom finished texture and shall be left level and true to a tolerance in plane of 6 mm in 3 m (1/4" in 10'-0"). Pitch floors to drains where required. Areas requiring filling, patching or leveling shall be prepared using cementitious levelers and patching materials. No gypsum base levelers shall be permitted.
 - 13.2 All surfaces to receive **ACOUSTIK™** subflooring, tile or stone shall be left clean, and free of dust, oil, grease, paint, tar wax, curing agent, primer, sealer, form release agent or any other deleterious substance and debris which may prevent or reduce adhesion.
 - 13.3 The general contractor shall be responsible for the removal of any contaminant prior to the execution of the work.

SPECIFICATION

SECTION 9

PART 1. GENERAL

1.0.1 SUMMARY

- A. Work performed under the requirements of this section shall be subject to all conditions set forth under PART 1 "GENERAL CONDITIONS" as applicable to this portion of the work.

1.0.2 REFERENCES

A. AMERICAN NATIONAL STANDARDS INSTITUTE (A.N.S.I.)

1. A-118.4 Fast-setting latex hydraulic thin-set mortar & latex Portland cement mortar
2. A-118.6 Ceramic tile grouts
3. A-118.10 Thin, loadbearing waterproofing membrane
4. A-108.5 Installation of ceramic tile with latex thin-set mortar
5. A-108.10 Installation of grout in tile work

B. TILE COUNCIL OF AMERICAN INC.

1. Handbook for Ceramic Tile Installation



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GENERAL

1.0.3 SUBMITTALS

A. Product Data: Submit manufacturer's technical information and installation instructions for all specified materials.

B. SAMPLES

Prior to commencing the work, submit for approval four (4) representative tile or stone samples of each type, finish and color mounted on a complete ACOUSTIK™ sound insulation underlayment system assembly set over 12,5 mm (1/2") EXTERIOR grade plywood using the specified adhesive, mortar and grouted with the specified grout. All samples shall be of current production, properly identified, clean and representative of the appearance of the finished work.

1.0.4 QUALITY ASSURANCE

A. Provide subflooring adhesive, tile-setting materials and grouts from one source. Adhesive, additives, installation materials and grouts shall be from the same manufacturer.

1.0.5. DELIVERY, STORAGE AND HANDLING

A. Deliver and store packaged materials in original unopened containers with seals unbroken and labels intact until time of use.

B. Handle, store and protect materials in a manner to prevent chipping, breakage and damage or contamination to materials by water, moisture, freezing, excessive heat, foreign matter or other causes. Do not stir any frozen liquid material until completely thawed.

1.0.6 ENVIRONMENTAL REQUIREMENTS

A. Maintain environmental conditions and protect work during and after installation. Comply with trade standards and manufacturer's printed instructions.

B. Turn off all forced ventilation and radiant heating systems and protect the work against drafts during installation and for a least 72 hours after completion.

C. When necessary, build a temporary shelter and use indirect auxiliary heaters to maintain an adequate temperature level in the working environment.

D. Exhaust temporary heaters to exterior to prevent damage to the work from carbon dioxide emanations.

E. Maintain temperature in tiled areas at not less than 10°C (50°F) or more than 35°C (95°F) during installation and for at least 7 days after completion, unless otherwise indicated in the product instructions and/or in ANSI A108 installation standards.

PART 2. PRODUCTS *(Select appropriate product or products, delete all others)*

2.0.1 MATERIALS

A. SOUND INSULATION UNDERLAYMENT: *(See Note to specifier 1.)*

ACOUSTIK™ Recycled rubber subflooring, 594 x 594 x 8 mm (23-3/8" x 23-3/8" x 5/16")

distributed by Acoustical Surfaces, Inc, 123 Columbia Court North, Suite 201, Chaska, MN 55318

Phone: (952) 448-5300 • Toll Free: (800)-448-0121 • Fax: (952) 448-2613 • E-mail: sales@acousticalsurface.com

B. PLYWOOD UNDERLAYMENT: *Only For Commercial & Institutional Installation –*

See "Notes to specifier" 3. & 4.)

12,5 mm (1/2") thick A.P.A. rated GROUP 1, EXTERIOR GRADE plywood, C.C. plugged or better conforming to U.S. Product Standard PS 1-95 or COFI rated EXTERIOR GRADE plywood, SELECT or (SEL TF), conforming to CSA 0121 standard or Douglas fir.

C. CERAMIC TILE: *(Specify type, name, size thickness and color. – See "Note to specifier" 5.)*

D. MARBLE, GRANITE, NATURAL or AGGLOMERATE STONE: *(Specify SOURCE, type, size, thickness and – See "Note to specifier" 5.)*

2.0.2 SETTINGS MATERIALS

A. SOUND INSULATION SUBFLOORING ADHESIVE: *(See Notes to specifier" 2. & 3. and Details A, B & C.)*
DA5, two component fast-setting reactive resin adhesive.

B. PLYWOOD UNDERLAYMENT ADHESIVE: *(Only For Commercial & Institutional Installations – See "Notes to specifier" 3. & 4.)*

DA5, two component fast-setting reactive resin adhesive.

C. FLEXIBLE ACRYLIC LATEX PORTLAND CEMENT MORTAR: *(See "Notes to specifier" 6., 10., 11., 12.)*
KERALASTIC®/DERABOND® by MAPEI. (Specify color) two-component flexible acrylic mortar system conforming to ANSI A118.4 standard. The liquid polymer shall have the following characteristics:



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C. FLEXIBLE ACRYLIC LATEX PORTLAND CEMENT MORTAR: (See "Notes to specifier" 6., 10., 11., 12.) KERALASTIC®/DERABOND® by MAPEI. (Specify color) two-component flexible acrylic mortar system conforming to ANSI A118.4 standard. The liquid polymer shall have the following characteristics:

Polymer category:	Acrylic copolymer
Solids content (%)	28.0 – 32.0
pH:	4.0 – 5.0
Specific gravity (water – 1):	1.026
Glass transition temperature:	-20°F (-4F)
Particle size (um):	0.25 – 0.35

D. FLEXIBLE FAST-SETTING LATEX HCT MORTAR: (See "Notes to specifier" 6., 10., 11. and 12.)

E. ACCESSORIES

1. WATERPROOF MEMBRANE: (See "Notes to specifier" 10., 11. and 12.) PRP 315 by MAPEI, thin, loadbearing, trowel-applied waterproof membrane conforming to ANSI A-118.10 standard.

2.0.3 GROUTING MATERIALS

A. FAST-SETTING, POLYMER-MODIFIED HCT GROUT: (See "Note to specifier" 9) KER 700 ULTRA/COLOR® by MAPEI, fast-curing, high early strength, polymer-modified HCT sanded commercial tile grout conforming to ANSI A118.6 standard, Color: (specify color.... or as selected by the architect.)

B. SANDED TILE GROUT: (SEE "NOTED TO SPECIFIER" 9.) KER 200 by MAPEI, polymer-modified sanded Portland cement grout conforming to ANSI A118.6 standard, Color: (specify color or as selected by the architect.)

C. WATER: Clean, cool and potable.

2.0.4 MIXING FOR SETTING AND GROUTING MATERIALS

A. Mix setting and grouting materials in strict accordance with manufacturer's printed instructions.

B. Use clean mixing containers.

C. Use a low speed mixer (approximately 300 PRM)

2.0.5. SPECIAL CONDITIONS: (See "Notes to specifier" 3., 4., 6., 10., 11. and 12.)

A. In areas which cannot be closed to traffic for any length of time, install tile or stone with KER 318 / GRANI/RAPID flexible fast-setting latex HCT mortar system and grout with KER 700 ULTRA/COLOR fast-curing, high early strength polymer-modified HCT sanded tile grout.

B. When installing large size stone, nominal size 400 x 400 mm (16" x 16"), up to 600 x 600 mm (24" x 24"), use a special medium-bed mortar trowel [19 mm x 14 mm (3/4" x 9/16") U-shaped] and install KER 318 / GRANI/RAPID® as a flexible medium-bed mortar.

PART 3. EXECUTION

3.0.1. EXAMINATION

A. Before work commences, examine the areas to be covered and report any deficiency or adverse condition in writing to the general contractor and the architect. Do not proceed with the work until surfaces and conditions comply with the manufacturer's instructions and ANSI A108.5 specification requirements. For more details see "TCA HANDBOOK FOR CERAMIC TILE INSTALLATION".

3.0.2 SURFACE PREPARATION

A. GENERAL

1. All supporting floors shall be structurally sound, solid, stable, level, plumb and true to a tolerance in plane of 6 mm in 3 m (1/4" in 10'-0") (See TCA HANDBOOK AND ANSI Guidelines for details). Clean and remove all dust, oil, grease, paint, tar, wax, curing agent, primer, sealer, form release agent and any deleterious substance and debris which may prevent or reduce adhesion.
2. Mechanically sand, shot blast or scarify the substrate to completely remove all paint, loosely bonded topping, loose particles and construction debris. When sanding or scarifying surfaces that may contain silica sand, use an approved dust mask. Surfaces containing asbestos must be handled in accordance with current EPA regulations. Contact your local EPA office.



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3. Neutralize any trace of strong acid or alkali from the substrate prior to the application of the panel adhesive.
4. All substrates shall be dry. The moisture content of the substrate shall not exceed 2.5%.
5. In all cases, the structural design of the floor shall not allow a deflection greater than 1/360 of the span under live and dead loads.

B. CONCRETE

1. Concrete surfaces shall be dry, completely cured and free of hydrostatic conditions and/or moisture problem.
2. New concrete surfaces shall be wood floated or broom finished.

C. WOOD FRAME FLOOR CONSTRUCTION *(Specify only for interior residential light-duty floors (See Detail C and "Notes to specifier" 2., 3., 4. and 5.)*

1. Wood substrate shall be A.P.A. rated ASPENITE, OSB or GROUP 1, EXTERIOR GRADE plywood - C.C. plugged or better, conforming to U.S. Product Standard PS 1-95 or COFI rated "SELECT" or (SEL TF) EXTERIOR GRADE plywood conforming to CSA 0121 standard for Douglas fir.
2. Lauan, gypsum floor patching and leveling compounds, asbestos board, and ALL dimensionally unstable materials are not acceptable substrates.
3. Plywood surfaces shall be installed smooth face-up. Offset joints of subfloor and underlayment.
4. Use exclusively new materials.
5. When on joists 400 mm (16") O.C. plywood sub-floors shall consist of 2 layers each 16 mm (5/8") thick. Leave a 6 mm (1/4") gap around drain pipes, conduits, posts and columns and along wall and curb bases. Leave a 6 mm (1/4" spacing between panels. (See TCA HANDBOOK and ANSI Guidelines or details.) fasten plywood with non-rusting floor screws at every 150 mm (6") O.C. around the perimeter and 200 mm (8") O.C. in each direction throughout the field of the panel.
6. The adjacent edges of the wood subflooring shall not be more than 0.75 mm (1/32") above or below each other.
7. All wood – frame sub-floors shall be well heated and properly vented from under.
8. In all cases, the deflection of the entire floor system under load shall not exceed L/360, including provisions for the weight of the tile, mortar, underlayment, and ACOUSTIK™ subflooring.
9. Existing Plank or board floors, if solid with a design deflection not exceeding L/360, shall be properly sanded prior to receiving the ACOUSTIK™ sound insulation underlayment system.

3.0.3 INSTALLATION

- A. Before setting, ensure that the ACOUSTIK™ subflooring is supplied factory-sanded both sides, free of any form release or other manufacturing residue which could prevent or reduce tile adhesion.
- B. In wet areas and where waterproofing is required, install PRP 315 Waterproofing membrane over the entire well prepared clean substrate and 150 mm (6") up the walls, curbs and columns. Follow Manufacturer's instructions and allow the membrane to dry and cure undisturbed for at least 24 hours at room temperature and conditions before proceeding further with the installation.
- C. Install a 6 mm (1/4") thick polyethylene foam or 10 mm (3/8") thick fiberglass board at the perimeter of the tile installation and around any protrusions through the tile installation.
- D. On the properly prepared clean substrate, apply enough DA5 reactive resin adhesive, using a 5 mm (3/16") saw tooth trowel, to achieve a good adhesive contact with the back side of the ACOUSTIK™ subflooring.
- E. Set the soundproofing subflooring while adhesive is wet. Apply sufficient pressure on each subfloor unit to achieve good adhesive contact.
- F. Leave approximately 1 mm (1/32") spacing between units and 6 mm (1/4") spacing between ACOUSTIK™ subflooring and materials which it abuts such as walls, drains, pipes, conduits, columns and posts.
- G. Weigh down corners to avoid lippage and so that edges and corners are fully backed with adhesive when wet.
- H. Allow adhesive and subflooring to test undisturbed for at least 16 hours a room temperature and conditions before proceeding further with the installation.



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- I. In Commercial and Institutional Installations: Trowel-apply DA5 reactive resin adhesive over the top face of the ACOUSTIK™ subflooring using a 5 mm (3/16") saw tooth trowel. Set one layer of 12,5 mm thick EXTERIOR Grade Plywood panels while adhesive is wet. Apply sufficient pressure on the plywood to achieve good adhesive contact. DO NOT USE NAILS, SCREWS OR STAPLES. Leave approximately 6 mm (1/4") spacing between each plywood panel and between plywood panels and the materials which they abut such as walls, drains, pipes, conduits, columns and posts. Apply plywood panels so that Edges and corners are fully backed with adhesive when set and that the adjacent edges of the plywood panels are not more than 0,75 mm (1/32") above or below each other. Allow adhesive and plywood panels to rest undisturbed for at least 16 hours at room temperature and conditions before proceeding further with the installation.
- J. For Commercial and Institutional Installations IN WET AREAS- Install a layer of Cementitious Backer Unit (CBU) instead of using Plywood as the tile underlayment. In this case, install the CBU with KERALASTIC & KERABOND or GRANI/RAPID tile-setting mortar system instead of DA5 adhesive. DO NOT USE NAILS, SCREWS OR STAPLES. Leave a 3 mm (1/8") gap between the CBU panels. Butt-bond CBU panels with the same tile-setting mortar and tape both sides of panel edges with 50 mm (2") wide coated fiberglass tape. DO NOT FILL JOINTS THAT ABUT WALLS, COLUMNS, PIPES AND CONDUITS.
- K. Apply the tile-setting mortar using a notched trowel with deep enough grooves to achieve an 80% minimum mortar contact with the back side of the tile or stone. (Edges and corners must be fully backed with mortar when set.) In Commercial and Institutional installations, (paragraphs 3.0.3. I. & J. - above) fill joints between plywood panels with fresh setting mortar, using the flat side of the trowel as you go. DO NOT FILL JOINTS THAT ABUT WALLS, COLUMNS, PIPES AND CONDUITS.
- L. In wet areas and traffic floors, use the flat edge of the trowel and back butter each tile or stone immediately before laying with a sufficient mortar layer to achieve a 100% mortar contact and avoid-free solid support. Simultaneously, apply the mortar to the underlayment surface with a notched trowel with deep enough grooves to achieve a continuous bed without voids or unsupported areas. Lay tile or stone while both mortar surfaces are wet. Do not allow mortar to dry or skin over on either surfaces before laying the stone.
- M. Where medium-bed mortar installation is required, use a specially designed medium-bed trowel with 19 mm (3/4") wide x 14 mm (9/16") deep notches to install KER 318 / GRANI/RAPID® flexible HCT mortar.
- N. Install tile or stone according to the manufacturer's strict recommendations for the respective mortar systems and following the general outline procedure set forth in ANSI A108.5 SPECIFICATIONS FOR THE INSTALLATION OF CERAMIC TILES.
- O. Install tiles and stone leaving a regular even spacing between tiles of at least 3 mm (1/8"). For commercial floors and large areas, set tiles leaving a 5 mm (3/16") joint spacing. (Specify joint width if wider joints are desired.) NO BUTT JOINTS SHALL BE PERMITTED.

3.0.4. EXPANSION AND CONTROL JOINTS

- A. Install a FLEXIBLE ACOUSTIC SEALANT in joints where the tile or stone abuts restraining surfaces, around the perimeter of the work, around drain, pipe and conduit openings and at the base of walls, columns and curbs.
- B. In the field of the tile work, install expansion and control joints in all directions following Detail #EJ-171 recommendations published in the latest edition of the Tile Council of America HANDBOOK FOR CERAMIC TILE INSTALLATION. CAUTION CONTROL JOINTS: It must be clearly pointed out that under no circumstance should the control joint be cut in after the tile or stone has been installed. Install up to the control joint location and stop. If required, cut the tile or stone and resume setting from the opposite side. Before continuing, rake the joint clean.
- C. Install an approved compressible bead and sealant to caulk expansion and control joints. Follow the sealant manufacturer's strict instructions.

3.0.5 GROUTING (See "Notes to specifier" 7, 8, and 9.)

- A. Where tiles or stone are installed with KERALASTIC / KERABOND flexible latex Portland Cement mortar, grout no sooner than 24 hours after installation.
- B. Where tiles or stone are installed with KER 318 / GRANI/RAPID® fast-setting flexible latex HCT mortar, grout no sooner than 3 to 4 hours after installation.
- C. Use caution when grouting "High Polish" marble or stone to prevent scratching or damaging the surface. Always do a test area and obtain the architect's written approval before proceeding with the grouting of the entire work.



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- D. On floors where joints are specified to be 3 mm (1/8") to 15 mm (5/8") wide, install KER 700 ULTRA/COLOR (or KER 200) SANDED grout as specified.
- E. Install grout in strict accordance with the grout manufacturer's instructions and following the general outline procedure of ANSI A108.10 for latex Portland cement grouts.

3.0.6 CLEANING

- A. Remove all grout and mortar residue immediately while work progresses and before materials harden on the tile or stone surface.
- B. Clean tiles and stone completely leaving no apparent cement laitance or surface film. DO NOT ACID WASH especially where pigmented grouts are specified.

3.0.7 PROTECTION

A. Flexible acrylic latex Portland cement mortar installation:

- 1. **Floors:** protect floors from foot traffic for a least 24 hours and general traffic for at least 72 hours after installation. Prohibit heavy traffic on floors for at least 7 days after installation.

B. Flexible fast-setting latex HCT installation:

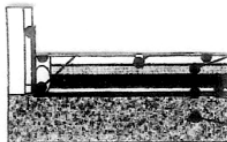
- 1. **Floors:** protect floors from general traffic for at least 3 to 4 hours after installation. Prohibit heavy traffic on floors for at least 24 hours after installation.

- C. Since temperature and humidity during and after installation affect the final curing time of all cement based materials allow for extended periods of cure and protection when temperatures drop below 15°C (60°F) and/or when the relative humidity is higher than 70%.

END OF SECTION

Residential Floor (Concrete Substrate)

Acoustik 3/8" (base of wall, optional)

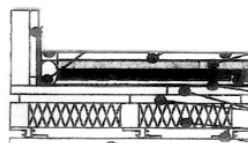


Grout
 Tile or Stone
 Thinset/ mudset
 Acoustik 3/8"
 DA5 Adhesive
 8" Concrete Slab

Residential Floor (Wood-Frame Construction)

Acoustik 3/8 (base of wall, optional)

Tile or Stone, grout



Thinset/ mudset
 Acoustik 3/8"
 DA5 Adhesive
 5/8" Plywood
 Acoustic Insulation wool

Resilient Channels

5/8" Gypsum Board Ceiling