

APPLICATION GUIDE

BEFORE YOU START

- Protect surfaces adjacent to the project with masking tape, tarp and polythene.
- Prepare pail, drill with concrete mixer and trowel.
- It is important to note that once MicroConcrete is mixed with cold water, depending on the ambient temperature, you will have between 20 and 60 minutes to apply it to the desired surface.
- **Do not apply on hardwood flooring.**
- Do not use the surface preparation on a new, unfinished, or porous surface, such as plywood, MDF, or HDF.

FOR THE INSTALLATION OF MICROCONCRETE ON A FLOOR

A. Application on a existing ceramic floor

***The ceramic must be stable and free from cracks**

1. Clean the surface with Finitec's [surface preparation](#). Apply the surface preparation with [Finitec's applicator](#) and let it sit for about 5 minutes. Then, wipe the solution with a mop or cloth. Next, rinse the surface with clean water one or two times. Do not use the surface preparation on a new, unfinished, or porous surface, such as plywood, MDF, or HDF. Refer to the [Surface Preparation application guide](#) for more details.
2. Inspect your ceramic floor to ensure its stability and check if any ceramic tiles are broken or cracked.

***If any ceramic tiles are broken, they must be removed before applying the MicroConcrete. Afterward, you can fill the cavities where the ceramic was removed with MicroConcrete or [MicroConcrete Filling](#).**

3. To optimize mechanical adhesion and facilitate installation, sand the ceramic with 40 or 60 grit sandpaper and vacuum the area.
4. To reduce the risk of «ghosting» or grout line telegraphing on the MicroConcrete, we need to seal the grout lines. Here are two methods:

Method 1 : Seal the ceramic grout lines with our [MicroConcrete sealer](#) or a grout sealer.

Method 2 : Apply a liquid membrane over the entire floor surface to seal the grout lines. Make sure the membrane adheres well to your ceramic. Follow the drying time.

5. Mix the MicroConcrete or [MicroConcrete Filling](#) with cold water using a drill and concrete mixer, maintaining a ratio of 20mL of cold water per 100g of MicroConcrete (700mL of cold water for a 3.5kg bag and 3.6L of cold water for an 18kg bucket), until a smooth and homogeneous mixture is obtained. Let the mixture sit for 2 to 3 minutes, then mix again. **Use a scale to ensure color uniformity. (VERY IMPORTANT STEP)**
6. Fill the ceramic joints with MicroConcrete or [MicroConcrete Filling](#) to level with the ceramic. Here are two methods:

Method 1 : Fill the grout lines with MicroConcrete or [MicroConcrete Filling](#) using a small trowel, ensuring that the joint is filled to the same level as the ceramic. If there is excess on the ceramic, it can be sanded or smoothed with a flat trowel about 4 to 5 hours after application. Clean the surface well with a vacuum. After filling the ceramic grout lines, wait a minimum of 12 hours before applying the layer of MicroConcrete Filling or MicroConcrete.

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Method 2 : Apply a layer of MicroConcrete or [Microconcrete Filling](#) over the entire floor surface using [Finitec's flexible trowel](#) at a 45-degree angle, ensuring the ceramic joints are well filled. After 4 to 5 hours, remove any rough spots with a metal trowel or sand the surface using a sander with 80-grit sandpaper. Clean the surface thoroughly with a vacuum. After filling the ceramic grout lines, wait a minimum of 12 hours before applying the layer of MicroConcrete Filling or MicroConcrete.

*The goal is to fill the ceramic joint and not to apply a uniform layer over the entire surface.

7. Apply a layer of 1 or 2 mm of MicroConcrete or [Microconcrete Filling](#) over the entire surface of your floor using [Finitec's flexible trowel](#), making half-moons or circular motions. Allow to dry for 3 to 4 hours. If your surface is rough, you can sand it with 80-grit sandpaper. If the texture of your surface is satisfactory, you can use a flat trowel to remove any rough spots on the MicroConcrete. Then, vacuum the area.
8. Apply the finishing layer of MicroConcrete. The finishing layer must be done exclusively with MicroConcrete. Allow to dry for at least 12 hours.
9. If necessary, sand the surface with a sander and 80 or 100-grit sandpaper or use a flat trowel to remove any rough spots. Clean with a vacuum.

*It is very important not to use a damp cloth or water to clean the MicroConcrete, as this would stain the surface.

10. After a minimum of 12 hours, apply the [protective sealer](#) for MicroConcrete, 2 coats for a matte finish and 3 to 4 coats for a wet look. See the sealer [application guide](#) for detailed instructions.

*The matte finish is a penetrating sealer, so you should plan to reapply coats after 6 months to 1 year. When water no longer beads on the surface, you need to apply another coat of matte sealer.

Note: For spraying MicroConcrete, a hopper gun with a 4 mm nozzle and an air inlet pressure of at least 80 psi can be used. Then, smooth the sprayed surface with a trowel.

B. Application of MicroConcrete on a new plywood floor

***The plywood must be stable and securely screwed across the entire surface**

- 1a. Stick a 1/4 " masonite with a V-notched trowel (1/8 " x 1/8 " x 1/8 ") and the [AcoustiTECH AD-532+](#) adhesive, then screw it down every 12 inches. **Wait 24 hours before proceeding to step 2.**

OR

- 1b. Apply the [AD-860 adhesive](#) in an S pattern on the masonite and screw it down every 4 inches. Wait 4 hours before proceeding to step 2.

*The thickness of the masonite can be varied according to your needs to align it with the adjacent floor.

2. Mix the MicroConcrete with cold water using a drill and concrete mixer, maintaining a ratio of 20mL of cold water per 100g of MicroConcrete (700mL of cold water for a 3.5kg bag and 3.6L of cold water for an 18kg bucket), until a smooth and homogeneous mixture is obtained. Let the mixture sit for 2 to 3 minutes, then mix again. **Use a scale to ensure color uniformity. (VERY IMPORTANT STEP)**
3. This step involves placing fiberglass tape on the masonite joints. Here's how to do it: Apply MicroConcrete or [Microconcrete Filling](#) to the masonite joint, place the fiberglass tape over the joint covered with freshly applied MicroConcrete, then use a trowel to properly fill the fiberglass tape. If necessary, add more MicroConcrete or Microconcrete Filling to achieve a smooth surface.

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4. Let dry for 4 to 6 hours before sanding the excess on the joints to level the surface. It is important to wear a mask.
5. Clean with a vacuum.
 - *Apply a minimum of 2 layers of MicroConcrete. For highly trafficked areas, we recommend a minimum of 3 layers of MicroConcrete.
6. Apply a thin layer of 1 or 2 mm of MicroConcrete or [MicroConcrete filling](#) over the entire surface of your floor using the [Finitec flexible trowel](#). Let it dry for 3 to 4 hours. If your surface is rough, you can sand it with 60 or 80 grit. If the porosity of your surface is satisfactory, you can use a flat trowel to remove the imperfections on the MicroConcrete. Then, vacuum the surface.
7. Apply your other layers following the same instructions. The finishing layer must be made exclusively with MicroConcrete. After applying the last layer of MicroConcrete, let it dry for 12 hours.
8. If necessary, sand the surface with a sander and 80/100 grit or use a flat trowel to remove any roughness. Clean with a vacuum.
 - *It is very important not to use a damp cloth or water to clean the MicroConcrete, as this would stain the surface.
9. After a minimum of 12 hours, apply the [protective sealer](#) for MicroConcrete, 2 layers for a matte finish* and 3 to 4 layers for a wet look. See the sealer [application guide](#) for detailed instruction
 - * The matte finish is a penetrating sealer, so you should plan to reapply coats after 6 months to 1 year. When water no longer beads on the surface, you need to apply another coat of matte sealer.

Note : For spraying MicroConcrete, you can use a hopper gun with a 4 mm nozzle and an air inlet pressure of at least 80 psi. Then, smooth the sprayed surface with a trowel.

C. Application of MicroConcrete on a concrete floor

- *MicroConcrete is not designed to level a concrete slab.
 - *MicroConcrete is not intended to resolve moisture issues; excessive moisture within the concrete slab can cause delamination or color change of the MicroConcrete.
 - *You can fill cracks and cavities with our [MicroConcrete filling](#). See the drying time chart on our [technical data sheet](#).
 - *Clean the slab with [Finitec surface preparation](#) or concrete cleaner.
 - *If the slab is painted and/or sealed, we recommend sanding it down with 80 grit.
- 1 Check the porosity of the concrete by placing drops of water in several spots on the concrete and ensuring that the water penetrates the concrete within a maximum of 1 minute. If not, you need to sand it again to open the pores of the concrete.
 - *We recommend 2 to 3 layers of MicroConcrete on a concrete floor.

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2. Apply a liquid membrane over the entire surface of the concrete floor
 3. Mix the MicroConcrete or [MicroConcrete filling](#) with cold water using a drill and concrete mixer, maintaining a ratio of 20mL of cold water per 100g of MicroConcrete (700mL of cold water for a 3.5kg bag and 3.6L of cold water for an 18kg bucket), until a smooth and homogeneous mixture is obtained. Let the mixture sit for 2 to 3 minutes, then mix again. **Use a scale to ensure color uniformity. (VERY IMPORTANT STEP)**
 4. Apply a thin layer of 1 or 2 mm of MicroConcrete or [MicroConcrete filling](#) over the entire surface of your floor with the [Finitec flexible trowel](#). Allow to dry for 3 to 4 hours. If your surface is rough, you can sand it with 60 or 80 grit. If the porosity of your surface is suitable for you, you can use a flat trowel to remove any roughness on the MicroConcrete. Then, vacuum the surface.
 5. Apply your other layers following the same instructions. The finishing layer must be done exclusively with MicroConcrete. After applying the last layer of MicroConcrete, allow it to dry for 12 hours.
 6. If necessary, sand the surface with a sander and 80/100 grit or use a flat trowel to remove any roughness. Clean with a vacuum.
- * It is very important not to use a damp cloth or water to clean the MicroConcrete, as this would stain the surface.
7. After a minimum of 12 hours, apply the [protective sealer](#) for MicroConcrete, using 2 coats for a matte finish* and 3 to 4 coats for a wet look. Refer to the sealer [application guide](#) for detailed instructions.
- * The matte finish is a penetrating sealer, so you should plan to reapply coats after 6 months to 1 year. When water no longer beads on the surface, you need to apply another coat of matte sealer.

Note : For spraying MicroConcrete, you can use a hopper gun with a 4 mm nozzle and an air inlet pressure of at least 80 psi. Then, smooth the sprayed surface with a trowel.

DRYING TIME

Touch: between 1 and 3 hours

Recoat: 4 hours

Circulation: 12 hours

SHELF LIFE

MicroConcrete has a shelf life of two years if kept in its original packaging, well closed and stored in a dry place.

RESPONSIBILITY

It is the user's responsibility to read the instructions before using the product. Consult our website at www.finitec-inc.com or call our Customer Service Department at 1-888-838-4449 for more information.

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WARRANTY

Finitec Hardwood Products Inc. certifies that the product is free from manufacturing defect. The user assumes all responsibility for use in accordance with instructions of this label. Manufacturer's responsibility is limited to replacement of the product.

FIRST AID

Contains Portland cement and sand (crystalline silica). In case of eye contact: Flush eyes with plenty of water for at least 15 minutes. In case of skin contact: Wash exposed and/or contaminated parts thoroughly after handling. If inhaled: Move conscious victim to fresh air. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison control center or doctor.