



Installation Manual



Important

- Stellmann Non-Slip Clear PRO is a water-based, low-VOC coating. Read Data Sheet, Material Safety Data Sheet and any precautionary labels on containers. As with any chemical, ingestion, inhalation and prolonged repeated skin contact should be avoided by good occupational practice. Always wash hands before smoking, eating, drinking or using the toilet. Wear PPE conform SDS and instructions. Use respirator device when spray applying. Wear protective gloves and safety goggles.
- Surface and room temperature must be at least 14 degrees Celsius during application and curing. Do not apply in exterior situations when rain threatens. Do not apply when humidity is above 85%.
- Practical spreading rates will vary depending on such factors as method and conditions of applications and surface roughness and porosity.
- Thoroughly clean area using Stellmann Prep & Maintenance Cleaner or another alkaline based cleaner in conjunction with water and a stiff bristled brush removing all dirt, dust and unwanted materials etc. Wash clean until all foaming ceases using a hose or power washer. Allow to dry before applying Stellmann Non-Slip Clear. Ensure surface is thoroughly dry before application.
- Consult Technical Data Sheet and Safety Data Sheet before usage.

Stellmann Primer

Stellmann Non-Slip Clear can be applied to a wide range of surfaces in combination with our Stellmann primer. The Primer is a single-component, water-based, acrylic primer. It is blueish in wet conditions, transparent when dry.

Do not pour directly onto high suction substrates. Stir or shake prior to use. Dilute with water on a 1:1 ratio. Use lower dilution when applying to high suction substrates.

Application

- Small areas (-15sqm): use a sponge to apply the primer to the surface.
- Large areas: (15sqsm+): use a flat microfiber mop to evenly apply the mixture to the surface.
- Avoid puddling and skinning.
- Primer will cure in approx. 30 min at room temperature. Application of Stellmann Non-Slip Clear may resume immediately after the primer has dried.
- Wear shoe covers when walking on a primed surface.
- Do not use cleaning agents after applying the primer.
- Apply Stellmann Non-Slip Clear within 8 hours after applying the primer.



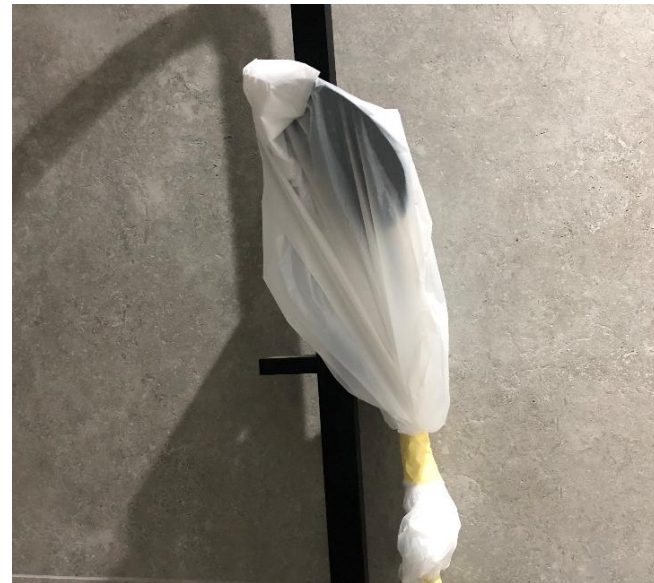
Primer application to travertine tiles

Safety

- Read TDS and MSDS prior to use.
- Wear PPE conform SDS, and label.

Preparation

- Cover walls and other sensitive surfaces.
- Cover taps, shower heads, etc. to avoid water dripping onto the coating when it is curing.
- Make sure walls are dry to avoid dripping onto surface.



Preparation

- Find an appropriate area to mix the coating.
- Use a drop sheet to avoid spilling material on the floor.

Tools

- Electrical precision scale
- Mixing cups
- Electric drill
- Large drill head for Part A
- Smaller drill head to mix both components
- Bucket with water for clean up
- Cloth or paper towels
- Paint tray

Coating Preparation

- Thoroughly stir Stellmann Part A before use with an electrical mixer for at least 5 minutes. Make sure to mix in any material sitting on the bottom of the bucket.
- Part A needs to be mixed every time prior to use.



Mixing Stellmann Components

Part A and B should always be mixed with an electrical mixer. Do not mix by shaking or manual stirring. This will not get a proper mix and can cause quality issues, such as partial curing, poor chemical and mechanical resistance, etc.

Mixing Ratio: 5 to 1

For every 5 parts of Part A, add 1 part of Part B. To calculate the amount of Part B that is required you can use two calculations:

1. Multiply Part A by 1.2. The result is the total amount you need to reach by adding Part B.
2. Multiply Part A by 0.2. This is the amount of Part B you need to add.

Only mix as much coating as will be immediately required. Once coating has been mixed, pot life is up to 2 hours depending on temperature and humidity.

- Place mixing cup on precision scale and turn on.
- Pour Part A in your mixing cup.
- Add the required amount of Hardener B.
- Thoroughly stir mixture with the small mixing head.

Mixing Example 1

- Part A in your mixing cup = 631 grams
- Multiply 631×1.2 . Result: 757
- Add Part B until you reach 757 grams
(you have added 126 grams of Hardener B)



1500grams of Part A in mixing pail



$1.2 \times 1500 = 1800$. Thus, 300 grams of Part B has been added.

Application and Coverage

Practical spreading rates will vary depending on such factors as method and conditions of applications and surface roughness and porosity.

The minimum amount of coating that needs to be applied per m² is 72 grams. This is the combination of Part A and B. For high traffic areas, it is recommended to increase coverage.

Carefully document coating mixing and usage on their projects.

- Write down how much material you mix for each section
- Check if the coverage of your mixture corresponds with the amount of m² you applied
- Coverage should not be below the amounts in the below table.

m ²	Part A	Part B	Total
1	60 gr	12 gr	72 gr
5	300 gr	60 gr	360 gr
20	1200 gr	240 gr	1440 gr
50	3000 gr	600 gr	3600 gr

Closing Part B

Prior to closing Part B, make sure to remove any residue from the lid/cap. Use a slightly wet cloth to remove the residue and then dry with a clean dry cloth. If residue is not removed, it will crystallise, making it impossible to remove the lid/cap the next time.

Roller Application

- For the best non-slip finish and result, use the Stellmann PRO rollers. Available roller sizes: 10, 18 and 25cm.. Warranty and slip-rating guarantee is void when using other rollers.
- Always use a clean paint tray.
- Make sure to let the roller absorb sufficient material prior to starting the application. Avoid coating dripping from the roller.

Application Method

- Split larger areas into smaller sections. Use tile grouts as borders and apply per two or four tiles. First time users should start with one tile to get accustomed to the spreading rate and application method.
- Areas without grouts should be split up in sections by masking tape to avoid rolling back into finished sections. Only highly experienced applicators can apply such areas without the use of masking tape.
- Always start in the middle of the tile and apply one line by rolling away from you.
- Roll out the first trike over surface of the section.
- Spread the coating over the section. Make sure to get a 100% coverage along the borders of the sections without rolling over the section.
- If needed, roll in cross-wise direction to apply a uniform layer thickness over the section.
- Finish the application by rolling in one direction (away from you) without applying pressure to the surface.
- **Finish all sections in the same rolling direction.** Variations in sheen are possible when finishing in an opposite direction.



Make sure to soak the roller with sufficient material. See next slide for application procedure.

Tips

- Avoid rolling back into finished sections. This will cause a double layer which can cure translucent and with a rougher or translucent finish.
- Avoid applications to darker surfaces in direct sunlight when it is warmer than 25 degrees Celsius. Preferable application method in direct sunlight in hot conditions is by sprayer.



The finished application will be whiteish in appearance. It will start to become transparent within 15 to 60 minutes, depending on conditions such as temperature.

Quality Control

When applying our coatings, it is important to regularly check the coverage rate of the application. The coverage needs to be at least 72 grams per m2. Increase coverage rate for high traffic areas (up to 85 to 100 grams per m2).

To get used to the right coverage rate, it is important to practice with smaller sections. We recommend to do at least three practice runs of each of the below sections.

Mix the coating for the practice section and make sure to apply all the mixture into the section.

Practice Runs

Practice Sections	Part A	Part B	Total
1m2	60 grams	12 grams	72 grams
2m2	120 grams	24 grams	144 grams
5m2	300 grams	60 grams	360 grams



1. Finished Stellmann Non-Slip Clear PRO Application

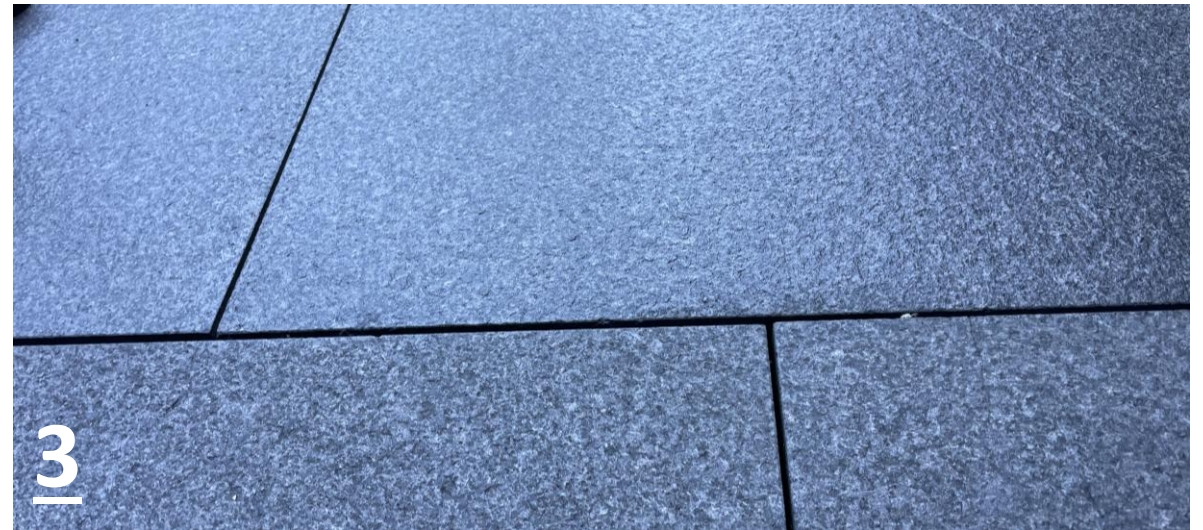
2. Before & After in wet conditions

Bottom three tiles are upgraded with Stellmann Non-Slip Clear. Upper tiles have no coating applied. Notice how the water beads up on the Stellmann coating and spreads out over the surface without the Stellmann Coating.



3. Before & After in dry conditions

Upper two tiles are upgraded with Stellmann Non-Slip Clear. Notice how the tiles have a satin sheen in direct sunlight



Spray Application

Stellmann Non-Slip Clear can be applied with a Graco FinishPro HVLP ProContractor, the Ozito 400W Power Sprayer, a range of Wagner Sprayers as well as conventional spray guns with 1.3mm to 1.6mm nozzle and 3 Barr air pressure.

The mixture of Part A and B needs to be diluted with approx. 4.5% water by weight to make it possible to spray apply (approx. 7.5% for the P5 mix after adding the P5 particles). Make sure to increase coverage to 80 grams per m² for the diluted mixture. If not enough material is applied, the durability and performance of the coating will significantly diminish.

PPE

Wear a half face spray mask when spraying indoors and outdoors. See TDS and SDS for PPE instructions.

Spray Instructions

Read separate spray application manual for full instructions. Always follow the instructions of the specific spray gun. Always clean sprayer directly after use with water.

- Protect surrounding areas from overspray.
- Remove filters from the sprayer's paint cup / pot.
- Apply at least 80 grams per m² to compensate for diluting the coating mixture. Practical spreading rates will vary depending on such factors as method, spray gun, over-spray, and conditions of applications (wind, etc.). Visual confirmation of layer thickness is required.
- Hold the spray gun approx. 20cm from the surface.
- Use conventional overlapspraying method. Start the movement and pull the trigger in motion. Cover the section, release the trigger and continue to finish the section.
- Moving parallel to the surface. Do not swirl the gun at the end of the stroke (material will go in the air and not on the surface)..



Curing Time

Surface is trafficable for light traffic after 24 hours of curing at room temperature. After applying the coating, it is necessary to allow a minimum of 7 days for complete curing. During this time, it is not advisable to use the chemicals commonly used for cleaning and disinfection or to subject the floor to heavy mechanical and pressure loads.

Daily Maintenance

Make sure to handover the Stellmann Technical Advice and Maintenance Instructions to the customer. Do not use buffing pads or other abrasive cleaning methods. Do not use harsh chemicals. See maintenance instructions for full disclosure.

Remove stones/grit or other particle contaminants with a vacuum cleaner or broom. It is best to use a professional vacuum cleaner with a soft brush attachment. Removing fine particles from the floor surface prevents scratches and damage to the floor. If you plan to move heavy machinery or furniture in the room, it is necessary to thoroughly remove dust and hard grains to prevent scratches during movement. If aggressive/erosive chemicals are used in the facility, they should be removed immediately if spilled.

Weekly maintenance

Perform thorough cleaning 1-2 times a week, depending on usage and floor load. The cleaning can be done mechanically (with soft rotating brushes at low speed) or manually. Avoid using hard/abrasive brushes, steel wool, and extremely abrasive cleaners.

Removing Heavy Soiling

First, thoroughly vacuum or sweep the soiled area of the floor. The cleaning can be carried out with professional machines (with soft rotating brushes at low speed) or manually. Repeat the process if necessary. During cleaning, change the heavily soiled solution to prevent dirt from spreading.

Desinfectants

Disinfectant must be used according to the manufacturer's instructions and must comply to our Technical Advice & Maintenance instructions. If the type of disinfectant is changed, a test should be conducted on a small floor area to detect any possible adverse effects in time. Additionally, sample areas should be prepared in advance to exclude surface irritations.

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Disclaimer: The data provided within the Stellmann Non-Slip system is correct at the time of publication, however it is the responsibility of those using this information to check that it is current prior to specifying or using any of these coating/product systems. Any advice, recommendation, information, assistance or service provided by any of the divisions of Stellmann Coatings Pty Ltd or its related entities in relation to goods manufactured by it or their use and application is given in good faith and is believed by Stellmann to be appropriate and reliable. Coating/product systems can be expected to perform as indicated on the spec sheet so long as applications and application procedures of the individual products are followed as recommended on the appropriate Product Data Sheet. Customers are encouraged to make their own enquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use.