

# Stellmann

NON-SLIP COATINGS

## Installation Manual



## Important

- Stellmann Non-Slip Clear PRO is a water-based, VOC-free 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, apply within 30 minutes.

- 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 x 1.2. Result: 757
- Add Part B until you reach 757 grams  
(you have added 126 grams of Hardener B)

### Mixing example 2

- Part A in your mixing cup = 250 grams
- Multiply 250 x 0.20. Result: 50
- Add 50 grams of Part B.  
(The total mixture will be 300 grams)



| Coating A | Part B | Total   |
|-----------|--------|---------|
| 100 gr    | 20 gr  | 120 gr  |
| 250 gr    | 50 gr  | 300 gr  |
| 600 gr    | 120 gr | 720 gr  |
| 2000 gr   | 400 gr | 2400 gr |

## Roller Application

- For the best non-slip finish and result, use the Peka Multitex rollers. Available roller sizes: 10, 18 and 25cm. Other rollers must be tested prior to starting an installation. Warranty is void when using other rollers.
- Spreading rate is minimum 72 grams per m<sup>2</sup>. Practical spreading rates will vary depending on such factors as application method, conditions of applications such as humidity and temperature as well surface roughness and porosity. For high traffic areas, it is recommended to increase coverage.
- Always use an appropriate paint tray.
- Make sure to let the roller absorb sufficient material prior to starting the application.

## 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 method.
- 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.
- Finish the application by rolling in one direction (away from you) without applying pressure to the surface. Finish all sections with the same 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.

- Avoid rolling back into finished sections. This will cause a double layer which can cure translucent and with a rougher 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

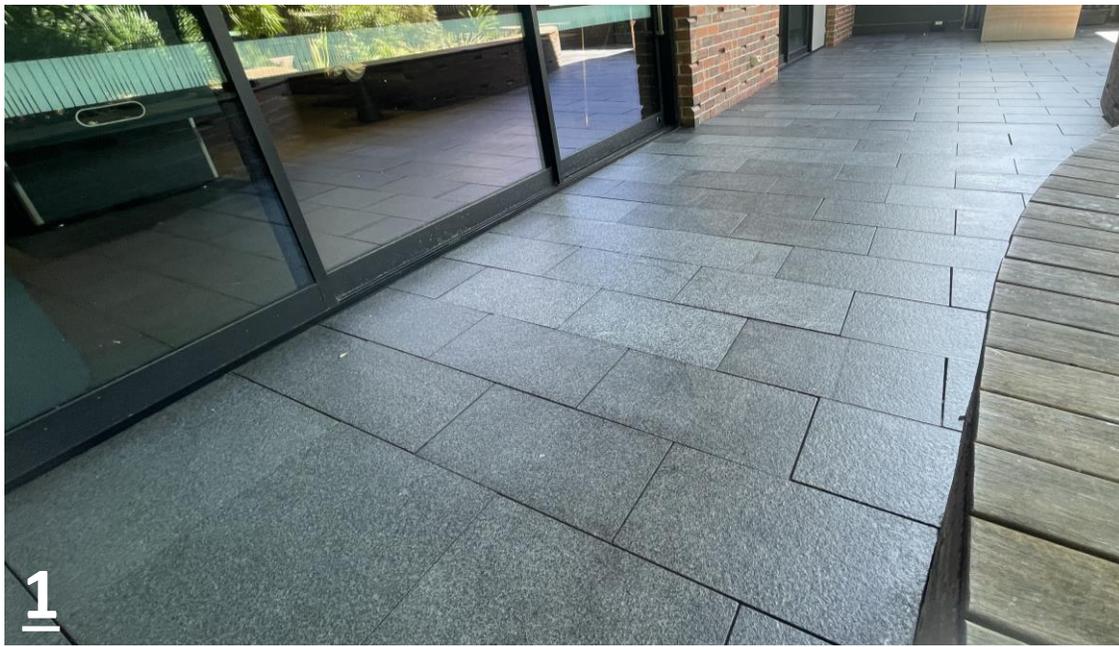
When applying our coatings, it is important to regularly check the coverage rate of the application. The coverage needs to be at least 72 grams per m<sup>2</sup>. Increase coverage rate for high traffic areas (up to 85 to 90 grams per m<sup>2</sup>).

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     |
|-------------------|-----------|----------|-----------|
| 1m <sup>2</sup>   | 60 grams  | 12 grams | 72 grams  |
| 2m <sup>2</sup>   | 120 grams | 24 grams | 144 grams |
| 5m <sup>2</sup>   | 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 application.

**3. Before & After in dry conditions**

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



## Spray Application

Stellmann Non-Slip Clear can be applied with a Graco FinishPro HVLP ProContractor, the Ozito 400W Power Sprayer or a conventional sprayer with 1.3mm nozzle and 3 Barr air pressure.

The mixture of Part A and B needs to be diluted with 5% water to make it possible to spray apply. Make sure to increase coverage to 76 grams per m<sup>2</sup> for the diluted mixture.

## Spray Instructions

Follow the instructions of the specific spray gun. Always clean sprayer directly after use.

- Make sure to remove any filters from the sprayer's paint cups. Make sure to protect surrounding areas from overspray.
- Practical spreading rates will vary depending on such factors as method, spray gun, over-spray, and conditions of applications (wind, etc.) and surface roughness. Make sure to apply at least 76 grams per m<sup>2</sup> to the surface.
- Hold the spray gun approx. 20cm from the surface.
- Use conventional spraying 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)..



# Clean-Up

Clean up with water directly after use. See SDS for further instructions.

## **ATTENTION – Before 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.

## Curing Time

Surface is trafficable for light traffic after 12 hours of curing at room temperature. Full chemical curing takes 2 to 3 days. Avoid mechanical cleaning and cleaning with chemicals until full curing is reached.

## Maintenance

Always 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.

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