



Installation Manual



- Aqualine MA DIY is a water-based, single-component MethAcrylic coating. It features the latest advancements in self-crosslinking coating systems. This makes it a highly durable single-component floor coating with UV resistance, ensuring durability against fading and saponification. This sets it apart as a superior option compared to other single-pack coating systems. Ideal for indoor residential projects and light to medium-use commercial areas, both indoors and outdoors. The coating is touch dry in 30 minutes and trafficable in 24 hours. Full chemical cure: 2 days.
- As with any chemical read Technical Data Sheet, Safety Data Sheet and any precautionary labels on containers. Also, 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. Safety first! Wear PPE conform SDS and instructions. Use respirator device when spray applying. Wear protective gloves and safety goggles.
- Minimum and maximum temperature: min. 10° Celsius - 25° Celsius
- Surface temperature: min. 5° Celsius. Ideally 15 to 22° Celsius.
- The theoretical spreading rate of Aqualine MA DIY is 5 -7 m²/kg. Practical spreading rates will vary depending on such factors as method and conditions of applications and surface roughness and porosity.
- Consult Technical Data Sheet and Safety Data Sheet before usage. Latest version available via info@stellmann.com.au

- New concrete must cure for a minimum of 28 days before applying Aqualine MA DIY. Ensure surface is thoroughly dry before application (< 3% building material moisture). The surface must be structurally sound and the substrate compressive strength should be at least 25MPa. The substrate tensile strength should be at least 1.5N/mm².
- All non-structural cracks and holes need to be repaired.
- In general, the surface to be treated needs be clean and free of all traces of loose material, dirt, debris, oil, grease, old flaking coatings, curing compounds, release agents, laitance, dust and other contaminants.
- **All new or old concrete surfaces should be prepared by mechanical grinding, abrasive blasting, etching, or any other suitable preparation/cleaning methods. Always check if all traces of oil and other contaminations have been completely removed before applying Aqualine MA DIY.**
- Substrate must be sealed off from rising moisture. Apply sample area in case of doubt.
- Aqualine MA DIY is a premium quality water-based concrete floor coating. It does not require a primer when applying to concrete. Instead, the first layer acts as the primer layer.

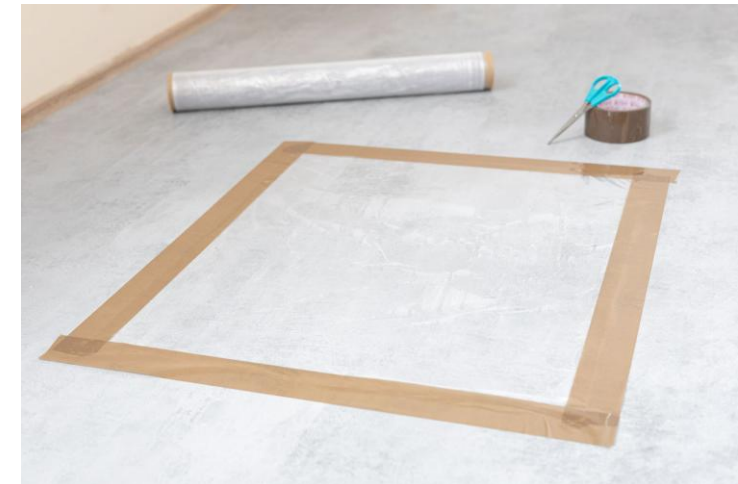
Surface Prep

- 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.
- Cleaning ideally performed one or two days prior to the application to allow the surface to dry before applying Stellmann Aqualine MA DIY. Because concrete is porous, it will absorb moisture during the cleaning process.
- Ensure surface is thoroughly dry before starting the application. Perform a moisture check in case of doubt. See TDS for acceptable moisture levels.



Moisture Test (Simple)

- If you do not have an appropriate moisture reader, use the following method:
- Apply Plastic Sheet: Cut a clear plastic sheet (30x30 cm) and tape it tightly around all edges to seal it to the floor. Use duct tape for a secure seal.
- Wait: Leave the plastic sheet in place for 24 hours. Ensure the area remains undisturbed.
- Check for Condensation: After 24 hours, remove the plastic and check the underside. If you see condensation or the concrete appears darker under the plastic, there is moisture present.
- Evaluate Results: If moisture is detected, further drying or a moisture barrier may be necessary before applying Aqualine MA DIY.



Surface Prep

- Conduct a surface check
- All new or old concrete surfaces must be prepared by mechanical grinding, abrasive blasting, etching, or any other suitable preparation/cleaning methods.
- Repair cracks and holes with concrete filler
- Make sure the surface is clean after grinding. Best way to do so is by a thoroughly cleaning (wet) and drying the surface



Surface check

- Significant flaking visible of previously applied single component coating around cracks in the concrete.
- Old coating needs to be ground down.
- Cracks needs to be filled.



Surface Prep

- Old flaking paint has been removed by grinding.
- Cracks are being prepared to be filled up. Prepping by cutting cracks deeper so filler will bond better.



Prepping

- Cracks have been professionally filled with a concrete filler.
- Surface has been cleaned and moisture content has been found within the limits.

Preparation

- Find an appropriate prep area.
- Use a drop sheet to avoid spilling material.

Tools

- Small pail/mixing cup to mix non-slip particles in
- Electric drill
- Large drill head for Part A
- Smaller drill head to mix non-slip particles in
- Bucket with water for clean up
- Cloth or paper towels
- Paint tray

Coating Preparation

- Thoroughly stir Aqualine MA DIY 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.



Dilution Rates

The theoretical spreading rate of Aqualine MA DIY is 5 -7 m²/kg. Aqualine MA DIY does not require the application of a separate primer. Two layers must be applied. The first coat is diluted with water so it can penetrate the substate. This creates an excellent base for the second coat to adhere onto. A third layer is optional (for increased durability).

Prime Coat

Dilute your first coat with 20% of water for new applications.

Mixing Example

Pour 1000 grams (1kg) of Aqualine MA DIY into your mixing pail which is placed on an electrical scale. Use the following formula to calculate how to dilute it.

Formula: $A \times 0.2 \rightarrow$ Example Calculation: $1000 \times 0.2 = 200$.

Thus, 200 grams of water needs to be added to Part A. Alternatively, multiply Aqualine MA DIY by 1.2. The result shows the total amount of coating and water combined. Using the above example, $1.2 \times 1000 = 1200$. So, add water 1200 grams is reached.

Slowly stir in the water with your medium mixer without power. Then, start mixing in the water with the electric mixer at low speed. Make sure the water is thoroughly mixed in.

Finish Coat

Dilute your finish coat with 0-5% water and apply.

Non-Slip Particles

Only add the Stellmann Non-Slip particles to the finish coat. For a P4 or P5 finish, only use Aqualine PU PRO.

- P3 Particles: Add up to 3% by weight.

Mixing Example

You added 1500 grams of Aqualine MA DIY in your mixing pail which is placed on an electrical precision scale. You need to achieve a P3 non-slip finish. Formula: $0.03 \times 1500 = 45$ grams. Add 45 grams of the Stellmann Non-Slip P3 Particles to the coating and mix in with an electrical mixer.

IMPORTANT: Do not add more than 3% of the Stellmann Non-Slip particles to the mixture. Adding more particles will not increase the slip-rating.

Renovations

For renovations (surfaces previously applied with Aqualine MA DIY) dilute first “primer” layer with 0-5% of water. Dilute the second layer with 0-5% of water.

Application

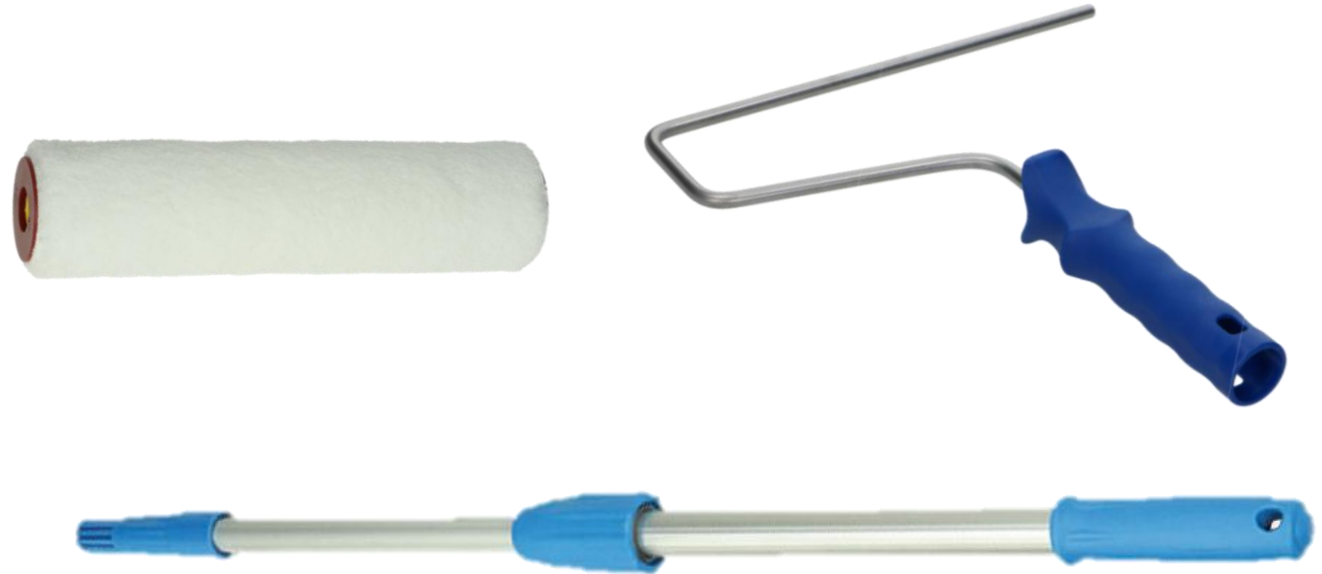
The finish coat needs to be applied evenly. Apply in sections in a straight line and always finish in the same direction (away from the applicator). **Do not use W or N shaped movements or cross-wise movements.** Avoid double layers.

Rollers and Paint Tray

Use the Stellmann PRO rollers to apply Aqualine MA DIY. This allows optimal distribution of the coating and non-slip particles. No guarantee on the slip-rating can be provided when other rollers are used. Use an appropriate paint tray.

Roller sizes

- 10cm - 25cm
- 36cm



Stellmann PRO Rollers and extension pole

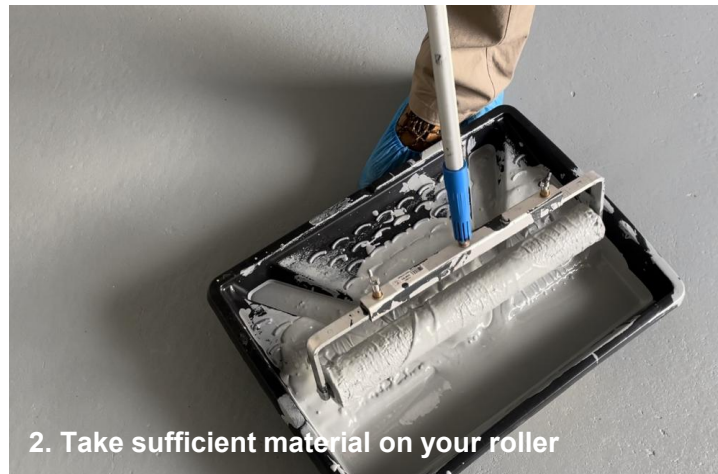


UniPro Paint tray and mesh grid for up to 460mm

Roller Application

Access our online installation support files for application videos. Apply an even coat in sections. Apply in a straight line and always finish in the same direction (away from the applicator). Do not roll back into areas that are curing to avoid buildup of the non-slip particles.

Do not apply a thick layer. A wet film thickness above approx. 150µm can cause “CO2-bubbles” in the coating. Clean up with water directly after use. See SDS for further instructions. Stellmann Aqualine MA DIY is touch dry in 30 minutes and trafficable in 24 hours. Full chemical cure: 7 days.



Tips:

- Avoid a “dry roller”.
- Avoid N or W patterns as doing so will result in a poor finish
- Always finish in the same direction (away from yourself)
- Keep stirring the coating mixture throughout the application process to make sure the non-slip particles are distributed evenly throughout the coating mixture.

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.

Disinfectants

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.