Flexstone COATINGS

Application Guide

Garage Floors & Commercial Floors

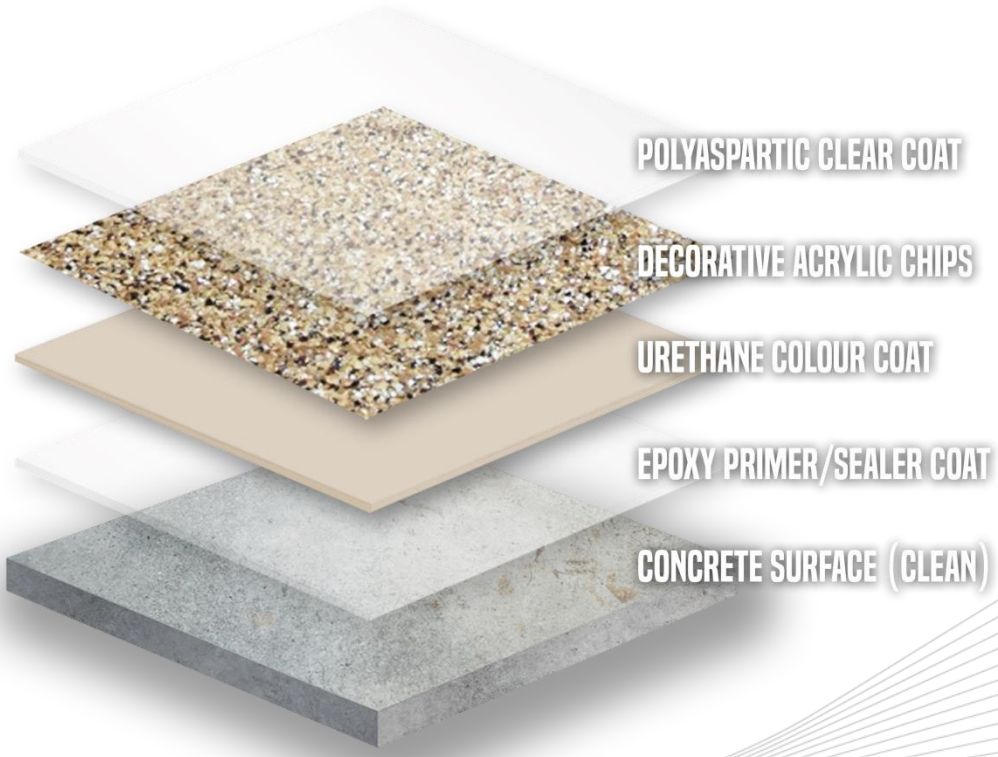
SECTION 1
TOOLS & MATERIALS

REQUIRED TOOLS & MATERIALS - CHECKLIST

- ◯ Flexstone Coatings products
- ◯ Flat Squeegee and Pole (Optional)
- ◯ Disposable brushes (3-4")
- ◯ Roller Sleeves (10mm), Pole & roller cage
- ◯ Clean 5 gallon pails (for mixing #3 Primer/Sealer)
- ◯ Slow speed drill & proper mixing paddle
- ◯ Spike Boots or Golf Shoes (optional)
- ◯ Disposable gloves

THINGS TO KNOW BEFORE YOU GET STARTED

- ✓ Surface preparation is very important. Failure to properly prep surface could result in poor adhesion.
- ✓ Flexstone flooring systems bond to concrete permanently with the use of the #3 Low Solvent Primer/Sealer.
- ✓ Ensure that concrete has been thoroughly cleaned prior to coating – this includes oil, dust, and other contaminants
- ✓ Ensure that the concrete surface is dry before installing the primer.
- ✓ Tape any protrusions, walls, posts and/or anything else you do not want to coat.
- ✓ The #3 Primer/Sealer has a limited pot-life once mixed. Only mix what you need.



CLEANING & PREPARING YOUR CONCRETE SURFACE:

- ✓ Ensure the surface is free from dust and debris. Clean with a stiff bristled brush before installing primer coat.
- ✓ Oils, grease, and other chemicals on the surface should be removed before installation – use a diluted de-greaser to help with removal.
- ✓ Allow the concrete to dry. The surface should have no moisture on it when you begin preparing for the primer installation.
- ✓ If your concrete surface has a coating or sealer on it – using a grinder, remove anything loose or poorly adhered before installing primer.
- ✓ For minor cracks and concrete repairs, you can use a 1 part urethane caulking to fill. Ensure you allow the caulking to cure fully before installing primer.

PREPARING THE PERIMETER:

Flexstone coatings adhere well to nearly any surface and are designed as long-term low-maintenance solutions – which is exactly why taping off your perimeter and protecting anything you do not want to coat is very important.

Using 2" – 3" protection tape, poly sheeting and/or cardboard; tape off your walls, work benches, or any other protrusions to avoid messes on your walls. This will also ensure that you will have clean lines between your new membrane and walls.

STEP 1 – INSTALLING THE #3 PRIMER SEALER *(500 sq/ft per 1.5 Gallon Kit)*:

The Flexstone #3 Primer/Sealer is a low solvent 2-part epoxy formulated to accomplish two jobs:

1. The primer/sealer ensures that the rest of the Flexstone system bonds to the substrate. It ensures excellent adhesion.
2. The primer/sealer also seals any trapped moisture below the surface and diverts that moisture to another exit point. This ensures that evaporating water within the concrete does not build-up pressure in hot weather which can affect adhesion.

- ✓ Once your concrete surface is clean, free of oil/contaminants and dry – prepare your first batch of #3 Primer / Sealer
  - ✓ With a drill mixer and spiral mixing paddle, thoroughly mix Part A (2 Parts) with Part B (1 Part)
  - ✓ Once the Primer #3 is mixed – Pour and spread. Ensure that there are no bald spots, rougher surfaces may require a thicker nap sleeve to ensure thorough coverage.
  - ✓ Using a roller and pole, with a 10mm nap epoxy roller sleeve, roll out the mixed epoxy over the surface evenly, ensuring that the entire surface has been coated. Sections without primer may be subject to blistering.
  - ✓ Allow the #3 Primer / Sealer to cure for 2-4 hours (at 25 degrees Celsius or 77 degrees Farenheit) or until tacky to the touch but no longer liquid.
  - ✓ Once the #3 Primer has hardened yet is still tacky, you are ready to roll out the colour coat and broadcast the chips (you can use the clear FSC Aspartic or AR Colour Coat for this).

FLEXSTONE TEXTURED STONE: APPLICATION STEPS

- ✓ Multi coloured blends of specially engineered polymer-acrylic flakes (chips) are used in conjunction with our AR (aromatic) colour coat.
- ✓ Using a STD 10mm roller apply a thin AR (aromatic) colour coat (or FSC Aspartic clear coat) over the tacky #3 Primer with a thin even coat.
- ✓ While top-coat is still wet, broadcast special colour chips to rejection using a small pail with holes (1/4" bit for holes) or by dispersing evenly by hand. Coat what you can reach with the chips and keep coating & broadcasting until done. Special hopper chip guns are an option for larger jobs.
- ✓ Allow colour coat to cure sufficiently, minimum of 6 hours (colour coat accelerators can be used to expedite this process.) Gently sweep up excess flakes which can be re-used.
- ✓ Lightly pole sand (100-150 grit) surface to knock down any jagged chip pieces and then blow off, sweep, or vacuum up the dust.


Hand-spreading chips


Pail Method of chip spreading

THINGS TO KNOW BEFORE INSTALLING FSC (SINGLE COMPONENT) ASPARTIC CLEAR COAT

- ✓ Sanding the flakes dictates how rough the surface is for slip resistance. Sanding more aggressively gives you a smoother finish and a light sanding leaves the surface rougher. Be careful not to sand too much – you will lose your slip resistance.
- ✓ The Flexstone FSC Aspartic is a single-component Polyaspartic. Do not mix any additives into the clear coat unless it is an approved pigment pack supplied by Flexstone Coatings.
- ✓ The FSC Aspartic is air-cured, ensure that you keep containers sealed during installation to prevent wasting any materials that may cure on the surface. Pour what you need into a paint tray and seal the pails or cans as you go.
- ✓ The solvents present in the FSC Aspartic can be harmful to inhale. Ensure that you have proper PPE – Nitrile gloves and VOC respirator. This is particularly important if you are working in an enclosed area.

INSTALLING THE POLYASPARTIC CLEAR COAT METHOD A – FOR LARGE JOBS

- ✓ Once you are ready to install the Polyaspartic clear coat, pour the contents over your floor as evenly as possible. Immediately after, begin spreading the material around with a flat squeegee to ensure that the clear coat is dispersed evenly.
- ✓ Once the polyaspartic has been dispersed over your floor – you are now ready to roll over it with a pole, roller, and 10mm sleeve.
- ✓ Wearing spiked boots or golf-shoes, proceed to roll over the material immediately after it has been dispersed with the squeegee.
- ✓ Roll over the polyaspartic quickly and evenly, working your way towards an exit point. Rolling over the surface helps to ensure that the product is evenly dispersed.
- ✓ The polyaspartic clear coat will self-level for a finite period – this is why it is wise to squeegee and back-roll the material quickly. In order to ensure that your materials are spread before the time runs out, preparation is key.

INSTALLING THE POLYASPARTIC CLEAR COAT METHOD B – FOR SMALL JOBS

- ✓ You can eliminate the need for spike boots and squeegees by pouring material into a paint tray and rolling it out directly on the surface. Ensure that you re-seal the pail each time you re-fill your roller-tray.
- ✓ Pour only what you can comfortably reach with a pole & roller without having to walk over the coated area.
- ✓ Ensure that you are not stopping/starting for long periods of time between each batch – the objective is to spread the material while it still maintains it's self-leveling characteristics. Waiting too long between mixing batches could cause overlap and flashing.
- ✓ This method of installation can be accomplished with 1 person.

IMPORTANT TIPS

- ✓ DO NOT leave FSC Aspartic in an un-sealed container for any longer than necessary – exposing the materials to air can lead to a surface-skin and wasted materials.
- ✓ Ensure that you and your surface are completely prepared for clear coat before installing the aspartic clear coat. This includes having your flat-squeegee ready, your roller/pole/sleeves ready, your spike-shoes ready and everything you do not want coated taped and protected.
- ✓ Know your area and mix slightly more than you should need for the project to ensure you do not run short, Merging one batch to another can be a difficult process so it is wise to avoid this when possible.
- ✓ Do not walk on the surface until it has fully cured (2-4 hours or until it is no longer tacky) to prevent leaving permanent footprints and do not drive on the surface for another 24 hours minimum.
- ✓ Do not drive on the surface for at least 48 hours (preferably 72 hours). The material will continue to harden for several days after the application is finished.