



Application Guide

GARAGE & COMMERCIAL FLOORS



Canada's Toughest Waterproof Coatings

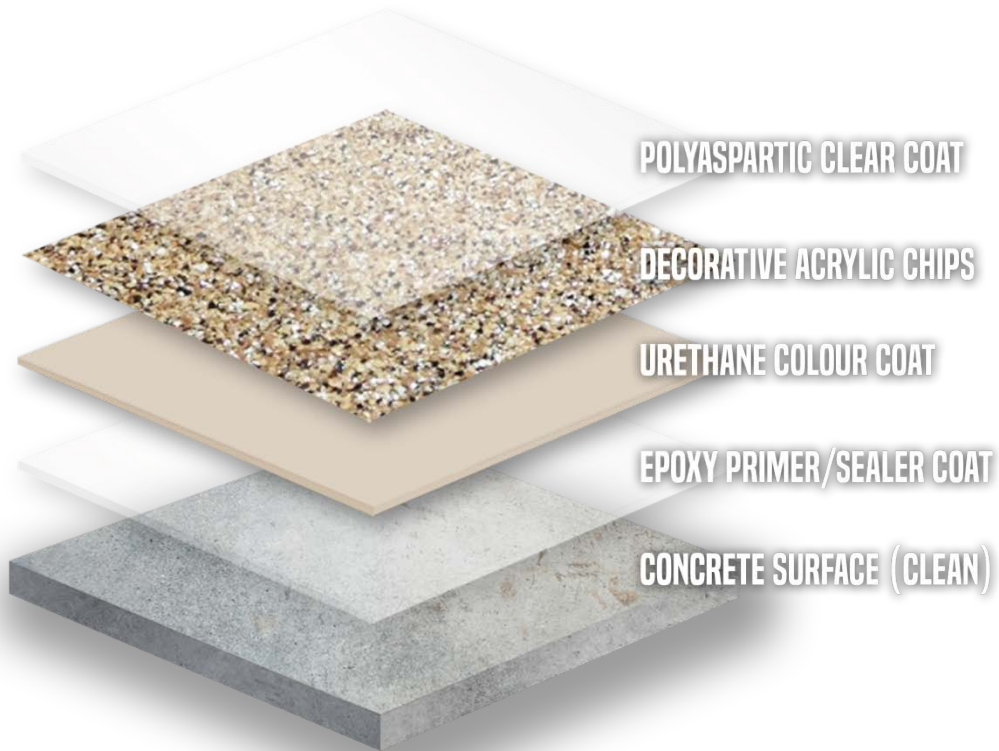
REQUIRED TOOLS & MATERIALS - CHECKLIST

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|--|--------------------------|---|--------------------------|
| Flexstone Coatings products (ensure you have enough) | <input type="checkbox"/> | Clean 5 gallon pails (for mixing Polyaspartic Clear Coat) | <input type="checkbox"/> |
| Flat Squeegee and Pole (Optional) | <input type="checkbox"/> | Slow speed drill & proper mixing paddle | <input type="checkbox"/> |
| Disposable brushes (3-4") | <input type="checkbox"/> | Spike Boots or Golf Shoes (optional) | <input type="checkbox"/> |
| Roller Sleeves (10mm), Pole & roller cage | <input type="checkbox"/> | Disposable gloves | <input type="checkbox"/> |

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 on the surface, 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.
- ✓ Both #3 Primer/Sealer and Polyaspartic Clear coats have a limited pot-life once mixed.
- ✓ **Do not mix components until you are ready to coat.**

*A typical garage floor can be done with one person if they are well prepared & organized.
Line up a helper for larger jobs.*





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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 causing blisters.
- ✓ 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 as quickly as possible.** When primer is mixed in the mixing pail, it will harden very fast. Do not mix until you are ready to apply.
 - ✓ 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 1-3 hours (at 25 degrees Celsius or 77 degrees Fahrenheit) 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.



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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 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 FLEXSTONE POLYASPARTIC 87 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 Polyaspartic is a 2-part mixture (**Equal parts A + B**). Before mixing your materials, determine how much area you are coating and how much of the polyaspartic clear coat you will require. Mixing too much will lead to wasted materials (once the two components are mixed, they will harden fast in the pail and become un-usable).
- ✓ The Flexstone Polyaspartic, once catalyzed (Part A mixed with Part B) will begin to heat up, thicken, and eventually harden. This process can take a little as 10 minutes before the product loses its self-leveling consistency and becomes too thick to evenly spread. Ensure that you are not mixing too much and when you do mix, be prepared to coat immediately.
- ✓ The solvents present in the Polyaspartic 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.

MIXING THE POLYASPARTIC CLEAR COAT

- ✓ Once your blend of acrylic chips has been swept, sanded, and vacuumed, you are ready to mix your Polyaspartic clear coat.
- ✓ 2 Gallons of Polyaspartic will cover approximately 350 square feet. If your project is less than 350 square feet, only mix what you will need to coat your area. This process is not an exact science – estimate how much you will need (1/2 of a kit? 3/4 of a kit?) and mix only that amount to prevent waste. **MIX PART A and PART B in EQUAL PROPORTIONS**
- ✓ Once you have measured out the approximate quantity required, in a pail - thoroughly mix Part A and Part B.
- ✓ **BE PREPARED TO SPREAD THE POLYASPARTIC CLEAR COAT BEFORE YOU MIX THE COMPONENTS. LEAVING MIXED POLYASPARTIC IN THE PAIL WILL CAUSE IT TO HARDEN FASTER.**



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INSTALLING THE POLYASPARTIC CLEAR COAT – METHOD A – FOR LARGE JOBS

- ✓ Once your polyaspartic components are mixed (1 Gallon A / 1 Gallon B), 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.
 - ✓ **The product, once spread will cure slower than if it is left in the pail.**
- ✓ 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 finished product is even.
- ✓ The polyaspartic clear coat will self-level for a finite period – this is why it is crucial 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 mixing partial pails of A & B and quickly/evenly rolling out the mixture. Do only as much as you can reach with a roller and pole. **Remember: 1 Full Kit (2 Gallons) will cover 350 Sq/Ft.**
- ✓ Mix quantities according to area size. For example ½ gal units of A & B will do 175 sq ft.
- ✓ Mix what you can comfortably reach with a pole & roller without having to walk over the coated area.
- ✓ Once Mixed, pour and roll out immediately with roller – spreading it as evenly and quickly as possible. Once spread, ensure that your second batch is prepared so that you can tie it into the first section without creating visible seams.
- ✓ When the first batch is spread, the second should be JUST mixed so that it can be poured out immediately and rolled over the surface.
- ✓ 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 mixed polyaspartic in a container for any longer than necessary – leaving mixed materials in the pail will speed-up the curing process making it more difficult to disperse and back-roll it evenly.
- ✓ Ensure that you and your surface are completely prepared for clear coat **before** mixing your polyaspartic components. 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.

QUESTIONS? Call us at (604)222-8453 or 1(866)419-8453. Our staff can walk you through any part of this process.