

Transforming Concrete for Decorative Elegance and Functionality

Concrete Floor Transformation has now become simple and effective with hi-build, self-levelling floor coatings in a variety of attractive colours. In addition, unique sealers for stain resistance, easy cleaning and a non-slip surface when wet are available.

Transform your garage floor into a super functional lounge, office or play room floor in a number of easy steps. The simplified application techniques enable DIY enthusiasts or small business contractors to provide superb results if the Samson system is faithfully followed.

Examples of Concrete Floor Transformation:

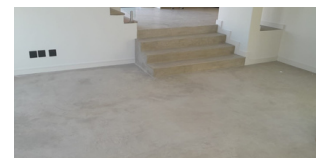
A Cape homeowner transformed his garage into an attractive lounge (as illustrated alongside)

A Northriding homeowner converted his cracked and delaminated garage floor into an attractive, light grey, non-staining and slip-proof multi-functional room. (see illustration)

Various substrates may be successfully transformed without undue chipping and removal of sound surfaces. (E.g. well bonded ceramic tiles). The floor coating is slightly flexible so that construction joints are not needed except to mirror existing joints in a concrete floor.



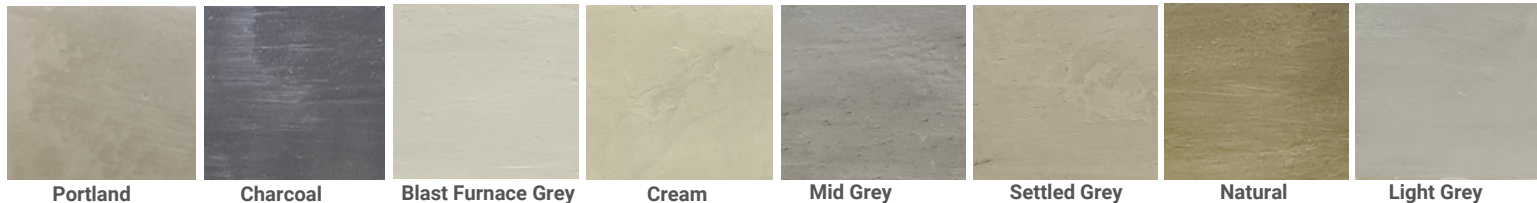
Transformed lounge



Functional Multi-room

Colours available:

Floor Coat is available in various shades of grey (Light Grey to Charcoal), shades of Ivory to Light & Dark Browns & Terracotta. (Custom Colours will be developed if desired for large projects. Standard colour charts available on request.



Installation Instruction

More detailed installation processes are on the reverse of this leaflet. In summary, the first step is adequate assessment and repair of the existing floor to receive the new surface. This process could include, crack filling and delamination repair. (as illustrated on reverse of this leaflet).

The next process is to bond and apply the new hi-build coating with suitable brushes or steel trowels if in the hands of a trained plasterer.

The new hi-build coating is then allowed several days to cure and gain strength. When suitably cured sandpapering or polishing with a suitable rotary polishing machine fitted with a diamond dust impregnated polishing pad.

After smoothing, a liquid repellent and shining clear sealer is evenly applied and allowed to dry out. At this stage a red fibre, 3M pad may be used on a rotary polisher to achieve a satin shine.



Transformed entrance area

The Floor is now ready to put into service.

The Samson Technologies products used:

- Super Fine Crack Filler or LVE Epoxy for crack stabilisation
- P3 Primer and Patch Mortar P for filling breakouts or delaminations
- Floor Coat (in selected colour) – The hi-build, self levelling cementitious coating for the floor
- Acrylic Emulsion Bonder for improving adhesion of the new coating to the substrate
- Siloxane Primer followed by MM Sealer Buffable for stain resistance and non-slip characteristics



Kitchen transformation

Concrete floor Transformation

Installation Instructions

Suitable Substrates

The floor transformation system is designed for application over sound concrete for thin set application. However, some alternative surfaces are suitable such as well bonded ceramic tiles. Surfaces to be avoided are those which do not give sufficient support to the new strong coating (e.g. weak, porous screed).

Preparation:

Cracked, delaminated or otherwise degraded concrete will require special preparation. Details crack injection systems are available from Samson. Some concretes are only weak at the top few millimetres in which case scarifying down to sound concrete is necessary. However, the sort of preparation needed for urethane or epoxy toppings is not necessary.

The surface should be dust and oil free and should have no contaminants likely to cause de-bonding. A rough sandpapering, vacuuming and pre-soaking is all that is necessary. Samson can advise on curing compound removal as appropriate but wax based products are exceptionally difficult to remove. The moisture condition of the floor is defined as saturated but surface damp with no standing water on the surface.

Bonding, Mixing and Applying the Coating

A light application of acrylic emulsion bonding agent is recommended over sound, prepared surfaces. The floor coat is packaged in 12.5kg bags for the preparation of 10lt of Liquid Coating by first placing 5lt of water into a suitable bucket and then whilst agitating with a suitable paint mixture the powder is added to the vortex until the full 12.5kg are added and the mix is smooth and lump free. It is now ready for application by brush or steel trowel. A good experience painter will do a good job using a large sized paintbrush, but some contractors will find that a trained artisan can achieve excellent results with a steel trowel.

The bonding agent should not be allowed to dry on the floor. It must be damp and tacky, otherwise bond will not be achieved. The technique is simple, just use a suitable applicator (such as, a fibre pad to thinly and evenly apply the bonding liquid just ahead of the floor coat application).

Brush Marks

Dependent on temperature the floor coat will remain self levelling for up to an hour. Therefore, it is best to work quickly wet on wet and only mix enough coating at a time to be applied promptly. If correctly executed there will be minimal brush marks and a smooth surface. However, if additional smoothing is needed complete hardening of the coating should be allowed and the surface then smoothen with a 100 grit sandpaper, or if available, a rotary polisher fitted with a diamond dust impregnated pad of the correct grade to remove minor imperfections without damaging the floor.

Glossing and Sealing

Properly hardened floor coat can be given an initial shine by the use of the finest grade of polishing pad available. Thereafter, the Siloxane Primer and final MM Sealer Buffable may be spread thinly and evenly again using a suitable fibre pad applicator.

Once the Sealer is touch dry (usually about an hour) the floor surface may be glossed with a rotary polisher fitted with an appropriate 3M Fibre polishing pad.

The Floor is now ready to put into service.

Cleaning and Re-Sealing



Crack repair



Delamination for repair



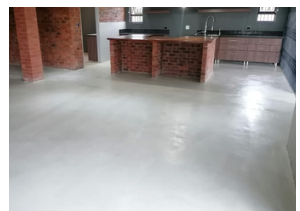
Repair



Light sanding



Fibre pad application



MM Sealer Buffable