

Enviroflake Seamless Floor Coating System

Step by step application
method for the
Enviroflake floor
coating system



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ACKNOWLEDGEMENTS

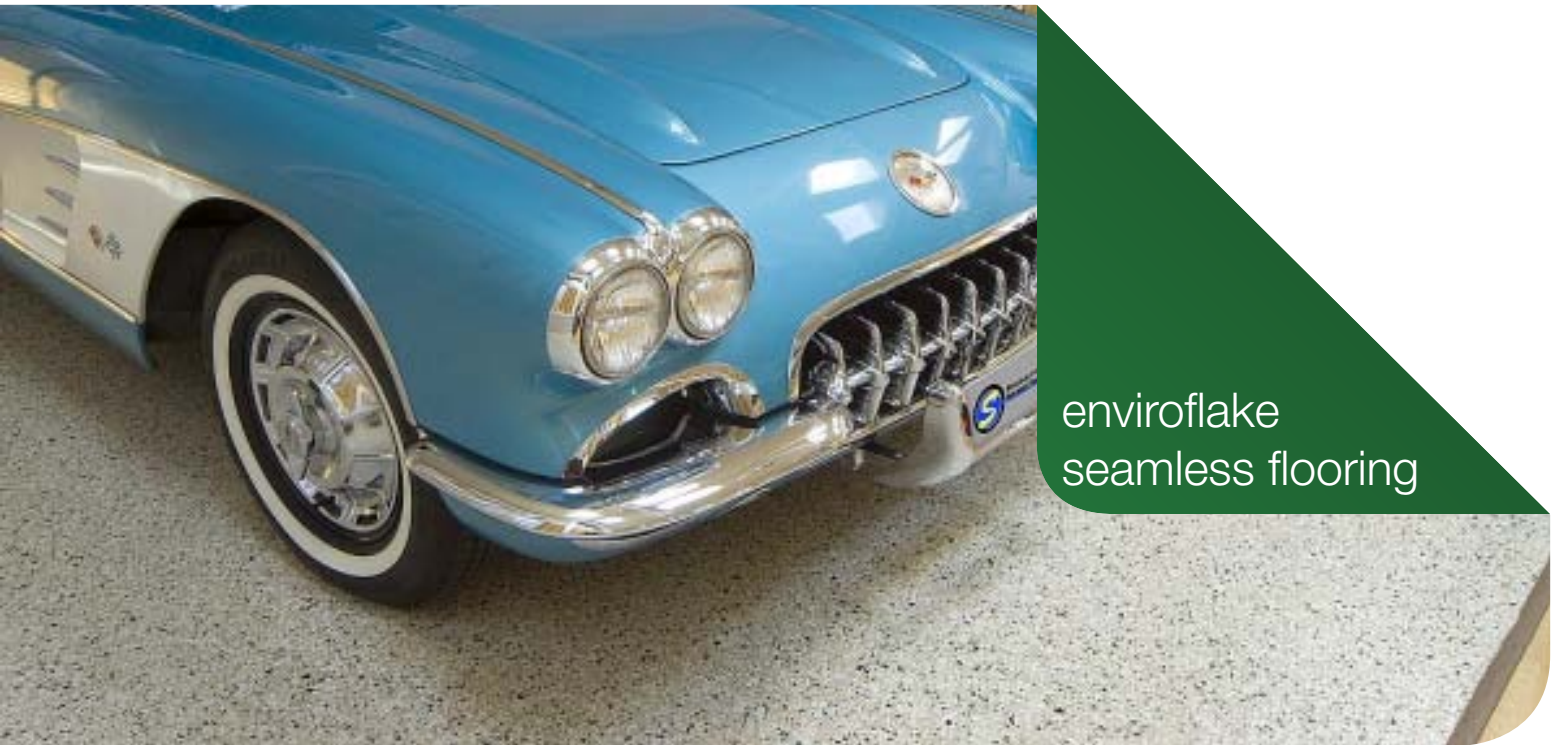
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Enviroflake Seamless Flooring System

The attractive multi-coloured Enviroflake Flooring System is a very popular and decorative floor finish for amenities, kitchens, retail shops and showrooms. Flake colours can be mixed and matched to blend in with surrounding surfaces, brighten up sparsely furnished areas and enhance corporate imagery by using company colours.

The dappled eye-catching appeal of Enviroflake Seamless Floors is

accompanied by excellent hygiene due to the absence of grout and joint lines. Cleanability of Enviroflake Seamless Floors in kitchens and amenities is often further enhanced by installing corner coving which is explained separately. A step-by-step Enviroflake Seamless Flooring method is included here.

Open your mind to the possibilities...

System Breakdown

- Decorative flake (large/small/micro);
- E2100 water based epoxy two pack basecoat;
- E8476 gloss water based polyurethane two pack non-yellowing clear topcoat.

Preparation Products

- Primer coat of E2100 thinned if necessary to prime concrete.
- NB New concrete should be allowed to cure for 28 days before coating.
- Acid for acid etching
- Diamond Grinder for grinding concrete surface

Equipment Required:

- Drop sheets;
- 3 10 litre buckets for mixing;
- 2 spatulas (metal);
- 1 set of man made fibre paint brushes;
- Tri-pack of 9mm roller naps 270mm;
- 3 white wall roller naps 6 - 7mm 270mm;
- Small bag of rags;
- 2 roller handles (one extender handle - one normal wood);
- 3 roller heads;
- 2 paint trays;
- 2 rolls of masking tape (1 x 1 inch wide - 1 x 2 inches wide);

- Pole sander and sand paper - 120 grit. 40 grit and finer for smaller areas;

Electrical Equipment:

- Electric drill (variable speed if available);
- Drill paddle/s x 2;
- Extension leads 2 x 30 meter lengths;
- Polyvac for floor sanding
- Commercial vacuum cleaner;
- Electric blower;

These equipment items depend on the individual and what is required, and are to be used as a guide only. Quantities and types may vary.

STEP 1 - PREPARATION	Provide profile key by grinding or acid etching, mask the edges and clean the area.
STEP 2 - PRIMING	Prime the surface – usually with E2100 to colour @ 6 - 8m ² /L.
STEP 3 – BASECOAT & BROADCAST	Apply basecoat – E2100 or E4110 to colour, usually light gray or white @ 5 - 6m ² /L and broadcast Enviroflake into the basecoat while still wet @ approx. 2 - 3m ² per kg.
STEP 4 - SHAVING	Flatten the surface by lightly scraping or sanding to remove protruding flake. Change the perimeter tape and remove all loose flake by sweeping or vacuuming.
STEP 5 - ENCAPSULATING	Apply the clear encapsulating coat – usually E2000 or E8476 @ approx. 5m ² /L.
STEP 6 - TOPCOATING	Apply the topcoat – usually E2000 for interior floors or E8476 for areas subject to UV light.

Enviroflake Seamless Flooring System



Step 1: Preparation

Concrete substrates are usually prepared by diamond grinding or acid etching to provide a clean, sound, absorbent, profiled surface for optimum adhesion of the primer coat. Previous coatings or adhesives should be removed by grinding and any rising damp problems should be treated before proceeding further.

Carefully attach a good quality broad masking tape at the wall-to-floor joint or along a pre-marked skirting height. This is important to prevent any mixed wet

product from damaging adjacent areas and also to form a neat edge line. Be aware that epoxy overlapping onto the tape has the ability to stick the tape fast to the wall when properly cured so try to cleanly remove the tape as soon as practicable after the flake has been broadcasted into the base coat.

Lastly, ensure that the floor surface is clear, dust-free, clean and dry before mixing product for priming.



Step 2: Priming

Priming is usually done with E2100 tinted to the selected base colour. Power-mix Part A and Part B of E2100 on your drop sheet in a clean bucket according to the instructions on the technical data sheet. Once parts A & B have been thoroughly mixed, the product may be thinned to aid application by adding 10-25% water. As a guide, you could mix 5 litres of E2100 in a 9 litre bucket, thin with 1 litre of water and then apply this quantity to about 40m² within an hour.

Apply the primer coat around the taped perimeter by brush and then roll the centre with a short nap roller using some right angled cross strokes to maximise penetration and uniformity. Usage rate should be approx. 6 - 8m² per litre. Allow a drying time of at least 4 hours before applying basecoat. If you intend to install epoxy corner coving, this should be done before commencing the next step.



Step 3: Basecoat & Broadcast

The base coat is usually E2100 or E4110 tinted to selected colour. Power-mix Part A and Part B of the basecoat in a clean bucket on your drop sheet according to the instructions on the technical data sheet. It is customary not to thin the basecoat because it is important to achieve a good film thickness to grip the flake. A 5 litre mix should do about 25 - 30m² within an hour.

Starting at the far corner, apply the basecoat by brush (for the edges) and short nap roller in sections of approx 6 - 8m² and evenly broadcast the Enviroflake into the wet product until all the basecoat is covered, except at the leading edge. Usage rates should be approx. 5 - 6m² per litre for the basecoat approx. 2-3m² per kg for the Enviroflake.



Step 4: Shaving

After allowing a curing period of at least 16 hours, remove the edge tape, sweep all the loose flakes from the surface using a semi stiff broom and apply more perimeter tape around the edge a couple of millimetres

above the previous line. Flatten the surface by gently scraping or sanding the surface in all directions to shave off the protruding flakes and then carefully vacuum the floor.



Step 5: Encapsulating

Power-mix Part A and Part B of the selected epoxy or polyurethane clear gloss encapsulating coat (usually E2000 or E8476) in a clean bucket on your drop sheet according to the instructions on the technical data sheet. Remember that E2000 clear epoxy is milky white when 1st mixed and E8476, as with all

polyurethanes, needs to be thoroughly mixed until completely smooth.

Apply the encapsulating coat gently, evenly and generously by brush and short nap synthetic roller at a rate of about 5m² per litre and allow another 16 hour curing period.



Step 6: Topcoating

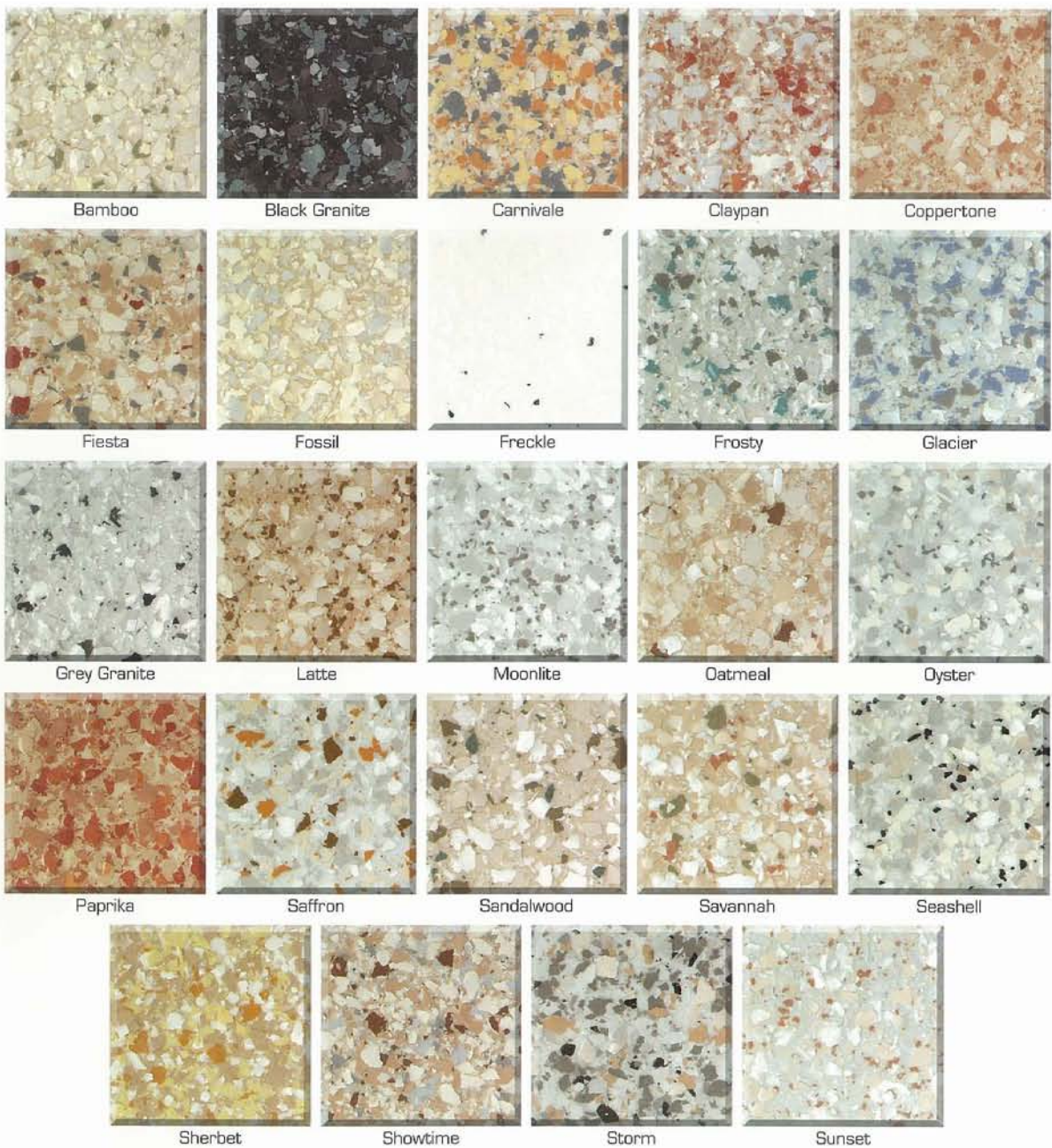
It is important to select a suitable topcoat which will meet all the visual and wearing requirements. So consider whether you want a gloss or satin finish and if you need special properties such as UV resistance and chemical tolerance. If you wish to incorporate anti-slip media, this should be considered now too.

Mix the topcoat (usually E2000 or E8476) as per the instruction in Step 5 above and apply at a rate of 6 - 8m² per litre. In many cases a 2nd topcoat is desirable.

Remove the perimeter tape and protect the floor from full traffic for 7 days.

blends

New Generation Blend Range



Standard Blend Range

blends



Ash Grey (Large)



Champagne (Large)



Desert Grey (Large)



Driftwood (Large)



Eastwick (Large)



Ash Grey (Small)



Champagne (Small)



Desert Grey (Small)



Driftwood (Small)



Eastwick (Small)



Fox (Large)



Fruit Salad (Large)



Grenadine (Large)



Grey Mist (Large)



Greywacke (Large)



Fox (Small)



Fruit Salad (Small)



Grenadine (Small)



Grey Mist (Small)



Greywacke (Small)



Honeycomb (Large)



Sahara (Large)



Snowfield (Large)



Steel (Large)



Honeycomb (Small)



Sahara (Small)



Snowfield (Small)



Steel (Small)

blends

Marbletone Blend Range



Black Marble (Large)



Caramel Marble (Large)



Grey Metal Marble (Large)



Heritage Marble (Large)



Midnight Marble (Large)



Black Marble (Small)



Caramel Marble (Small)



Grey Metal Marble (Small)



Heritage Marble (Small)



Midnight Marble (Small)



Pine Marble (Large)



Richmond Marble (Large)



Rusty Marble (Large)



Tan Marble (Large)



Terracotta Marble (Large)



Pine Marble (Small)



Richmond Marble (Small)



Rusty Marble (Small)



Tan Marble (Small)



Stonegrip Blend Range



Autumn Stonegrip



Aztec Stonegrip



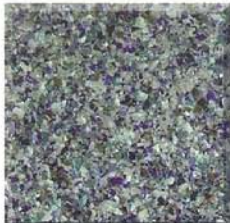
Beach Stone Stonegrip



Blue Metal Stonegrip



Moss Stonegrip



Opal Stonegrip



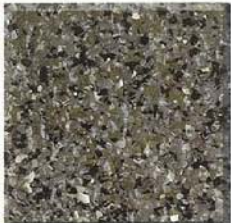
Pewter Stonegrip



Red Earth Stonegrip



Sandstone Stonegrip



Volcano Ash Stonegrip

projects

Projects



Maitland Community Centre



Goulburn Community Hall Toilets



MET School Goulburn - Kitchen



product overview

Product Overview

ENVIROTHANE 2100 is a two pack water borne epoxy coating with excellent film properties and surface hardness. Envirothane 2100 is a self priming and environmentally friendly coating system which is ideal as a floor coating, due to its excellent adhesion, chemical resistance and tolerance to damp surfaces.

Coverage rate: 6 - 10m²/litre

Mixing Ratio: 1:1

ENVIROTHANE 2000 is a two pack water borne very clear epoxy coating with excellent film properties and surface hardness. This self priming and environmentally friendly coating system is ideal as a floor coating with excellent adhesion, chemical resistance and tolerance to damp surfaces.

Coverage rate: 8m²/litre

Mixing Ratio: 1:1

ENVIROTHANE 4110 is a two pack pigmented, solvent free, 100% solids epoxy with excellent surface hardness and adhesion. Envirothane 4110 exhibits high water resistance, chemical and oil resistance with the ability to build virtually unlimited film thickness.

Theoretical Coverage: 4-6m² / litre

Mixing Ratio: 3:1 (Part A : Part B) by Volume.

ENVIROTHANE 8476 is a water borne two pack polyurethane coating which gives excellent adhesion, barrier and film properties on a variety of substrates. It is easy to use and environmentally friendly, with the added benefit of durability, good yellowing and UV resistance on exterior exposure. It has good abrasion and chemical resistance.

Theoretical Coverage: 8m²/L

Mixing Ratio: 6:1



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