

# FLEXCO POOLCOAT EPOXY SWIMMING POOL COATING

<b>Description</b>	<p><b>FLEXCO POOLCOAT Epoxy Protective Coating</b> is an epoxy high build system formulated to provide a jointless coating which has high water resistance in immersion situations like swimming pools. Self priming and easy to apply.</p> <p>The excellent adhesion, high water resistance, and good all round qualities of this system ensure maximum protection to most substrates. Especially effective over concrete, fibreglass, and clean steel. Resists water, oils, fats, hydrocarbon solvent splashing and atmospheres, chemicals, dilute acids, sewage, salts and alkali's.</p>
<b>For Use On</b>	<ul style="list-style-type: none"><li>• Fibreglass and concrete plaster swimming pools.</li><li>• Concrete flooring where a monolithic paint coating is called for.</li><li>• Sewage or water pipe linings and containment.</li><li>• Suitable for the painting of spa pools subject to temperatures up to 40°C.</li></ul>
<b>Apply by</b>	Brush and roller, or spray.
<b>Product Type</b>	Polyamine cured epoxy. Contains no isocyanate.
<b>Appearance</b>	<p>Available in a Deep and Mid Blue as standard. In exterior use above the waterline, these colours may be subject to some oxidizing (chalking). Clean regularly.</p> <p><b>DEEP BLUE and MID BLUE</b></p> <p>Approximate colour matches only</p>
<b>Adhesion:</b>	<p><b>FLEXCO POOLCOAT</b> will adhere to properly prepared substrates.</p> <p>Not suitable for overcoating silicone sealants or long chain aliphatic plastics. (Plastic pool liners and plastic spa pools)</p> <p>Not suitable for overcoating 1-pot chlorinated rubber and acrylic pool paints. (see previously painted)</p> <p>Adhesion is excellent on primed or unprimed clean steel, aluminium, aged or treated galvanised iron, timber, cement fibreboard, concrete, most paint systems, aged epoxies and GRP (fibreglass). Will tolerate moisture on the substrate surface but requires to be brushed in. Will also tolerate light, tight rust on steel substrates.</p>
<b>Weather</b>	Epoxies tend to have lower tolerance to UV. This results in earlier surface oxidation (chalking) on areas above the waterline, which does not generally affect the coating overall. Modern pool design gets around this problem by tiling above the waterline. (splash zone)
<b>Finish</b>	Gloss.
<b>Volume Solids</b>	100% resin. Solventless, in supplied form.
<b>Pack Size</b>	3 litres of Resin and Hardener; total. There are 3 x 1 litre packs within the carton. Just add one of the hardeners to one of the part pails of coloured resin and stir thoroughly.
<b>Mix Ratio Resin to Hardener</b>	3 : 1 by volume. Correct ratio must be used. NEVER overdose the resin with extra hardener. Varying will decrease cured properties usually evidenced by a greasy surface and soft film that lifts easily. This is an operator error, not a problem with the paint!
<b>Pot Life</b>	20 minutes @ 20°C. Use immediately.
<b>Thinners</b>	Epoxy solvent @ 5% by volume to give a smoother finish, but not recommended. This will also lower the film build so calculate for an extra coat.
<b>Wet Film Thickness</b>	Up to 150 microns.
<b>Dry Film Thickness</b>	Same as wet film thickness.

## Flexco (NZ) Ltd

67 Dalgety Drive, Manukau City, P: 0064 9 2686970, F: 0064 9 2686971, E: info@flexco-nz.co.nz  
P O Box 98866 South Auckland Mail Centre, Manukau City, New Zealand



**FLEXCO (N.Z.) LTD**

SOLVING TOMORROWS BUILDING PROBLEMS - TODAY

# FLEXCO POOLCOAT EPOXY SWIMMING POOL COATING

## Recommended Build (Theoretical Spreading Rate M<sup>2</sup>)

8 metres per mixed litre per coat, average = 150 microns per coat. The first coat (primer coat) on new concrete plaster will be absorbed because of porosity and therefore the spreading rate may be reduced.

## Recommended Coats

Two over existing paint – Three on new concrete plaster.

## Primer

Self Priming.

## Cure

When mixed and applied correctly will cure overnight if the temperature is above 100C. Lower temperatures will slow the rate of cure, as will higher film builds.

## Recoatibility

Excellent. Prepare as for fibreglass. Recoat Overnight.

**Caution:** Apply subsequent coats within 24 hours.

Sand thoroughly between coats if the application gap is greater than 2 – 3 days.

Full cure – Four to Five days.

## Flash Point

Solventless. Not applicable.

**Before starting your pool project, ensure there will be no problems with the pool lifting once drained due to ground water pressure. Consult your pool manufacturer or pool maintenance company.**

## SURFACE PREPARATION

### Blistering

Blisters generally have fluid secreted behind the head. This will be an oily feeling substance that also has a pungent odour. Remove all discoloured areas by mechanical grinding. A “ZEC” or “CECROPS” grinding blade, available from hardware or engineers supplies, is preferable. These are available in most sizes for angle grinders. Clean these areas thoroughly and ensure they are dry. Prime with **FLEXCO POOLCOAT**. Allow to cure. Rebuild with an epoxy filler. **EPOXYBOG** is ideal. When cured, sand off smooth and re-prime.

### Fibreglass

Power or hand sand the balance of the surface to remove release and curing waxes, with 80-120 grit sandpaper. Water rinse off thoroughly. Allow to dry before over-coating with **FLEXCO POOLCOAT**. May still contain release and curing waxes in the surface of the gel coat. Degrease with a water miscible degreaser and rinse off thoroughly.

### Concrete Blaster

Excluding marble plasters

Concrete curing agents are not recommended as they create a weak layer and **FLEXCO POOLCOAT** will not bond fully. If used, they must be removed by professional abrasive blasting. Allow cementations products at least 28 days curing time. Poured form-work, precast and prestressed slabs and beams may contain curing compounds and release oils. These must be removed by abrasive blasting. Laitence may be removed by etching with a dilute organic acid. 10% hydrochloric acid solution. Rinse thoroughly before it has dried.

**Caution:** Efflorescence (white oxidation) can still show through if the thickness of paint is insufficient.

## Flexco (NZ) Ltd

67 Dalgety Drive, Manukau City, P: 0064 9 2686970, F: 0064 9 2686971, E: info@flexco-nz.co.nz  
P O Box 98866 South Auckland Mail Centre, Manukau City, New Zealand



**FLEXCO (N.Z.) LTD**

SOLVING TOMORROWS BUILDING PROBLEMS - TODAY

# FLEXCO POOLCOAT EPOXY SWIMMING POOL COATING

## Previously Painted

The existing paint could be 1-pot chlorinated rubber, 1-pot acrylic, or 2- pot epoxy. **FLEXCO POOLCOAT** will not successfully over-coat the first two paint types. Dampen a rag with epoxy solvent and rub the surface. If the paint softens and can be removed it will be one of these. Therefore the entire surface must be completely removed by professional abrasive blasting. Once this is completed, treat as for Concrete Plaster. If the existing paint is a 2-pot epoxy, remove all discoloured areas by mechanical grinding. A “**ZEC**” or “**CECROPS**” grinding blade, available from hardware or engineers supplies, is preferable. These are available in most sizes for angle grinders. Clean the areas then rebuild with an epoxy filler. **EPOXYBOG** is ideal. When cured, sand off smooth. Power or hand sand the balance of the surface to remove body fats and general contamination, with 80-120 grit sandpaper. Water rinse off thoroughly. Allow to dry before over-coating with **FLEXCO POOLCOAT**. May still contain body fats and contamination on the surface. Degrease with a water miscible degreaser and rinse off thoroughly.

## Marble Plaster

This surface type is not recommended for over-painting because of the reasons given below. If there is no alternative, follow the procedure listed for best results. If over-painting this type of surface, care must be exercised in its preparation. Because of its porous nature, there will be contamination (fats and pool chemicals/salts) within the surface which will be hard to remove. Remove all discoloured areas by mechanical grinding. A “**ZEC**” or “**CECROPS**” grinding blade, available from hardware or engineers supplies, is preferable. These are available in most sizes for angle grinders. Clean these areas then rebuild with an epoxy filler. **EPOXYBOG** is ideal. When cured, sand off smooth. Degrease the balance of the surface and water-blast thoroughly. 1600 – 1750 psi is suitable but must be used close to the surface. Water rinse off thoroughly. High volume water will remove the last of the degreaser. Allow to dry. Coat the entire surface with **TIMBER SEALER & PRIMER** 1:1. This sealer works well on marble plaster, will soak in and bond the surface. It will also encapsulate in-ground contamination. Apply 2 – 3 coats of **FLEXCO POOLCOAT** within 24 hours.

## Application

Choose clear and dry weather and apply early in the day so the coating is not affected by rain or dew. Stir the resin and hardener parts thoroughly before combining. Use a flat blade spatula or power stir. Add the two components at the specified mix ratio (3:1) into a clean dry container and mix until homogeneous.

### Brush or roller

Thin sparingly (5%) if necessary with epoxy solvent. Apply two to three even coats.

### Conventional spray, pressure pot

May be used unthinned with suitable equipment. Thin if necessary.

### Airless spray

May be used unthinned. Thin if necessary 5-10%. A .019” tip is suitable.

### Painting General

In hot and dry conditions, use epoxy solvent in spraying applications. Do not add fresh material into a partially cured mix as premature polymerisation will occur. Clean equipment thoroughly between mixes. Do not apply **FLEXCO POOLCOAT** in cold and damp situations. Temperature below 10°C and relative humidity of > 85%.

### Actual Method

A quick and easy method for rolling. Work from deepest end. Mix paint. Paint top edge with brush. Pour line of paint onto floor close to wall. Roll up wall and across floor.

## Flexco (NZ) Ltd

67 Dalgety Drive, Manukau City, P: 0064 9 2686970, F: 0064 9 2686971, E: info@flexco-nz.co.nz  
P O Box 98866 South Auckland Mail Centre, Manukau City, New Zealand



**FLEXCO (N.Z.) LTD**

SOLVING TOMORROWS BUILDING PROBLEMS - TODAY

# FLEXCO POOLCOAT EPOXY SWIMMING POOL COATING

<b>Refilling</b>	Refilling the pool is not recommended within 4-5 days after the finish coat. A consequence of early filling can be the coating does not cure properly and can blister, or the colour will wash off the surface.
<b>Blistering</b>	This can occur if traces of contaminants are painted over on the prepared surface. Body fats, pool chemicals, salts, etc. The importance of proper preparation cannot be stressed enough.
<b>Clean Up</b>	Use epoxy solvent for clean up and for cleaning brushes and rollers.
<b>Storage</b>	Store in cool, dry area, away from heat sources. Keep containers tightly sealed.
<b>Handling</b>	Epoxy resin and amine hardeners are known skin sensitizers. Epoxy thinners will defat skin tissue. Prolonged exposure will cause dermatitis. Use gloves and protective clothing. Use approved eye protection to avoid splashes. Use approved respirator face mask when spraying <b>FLEXCO POOLCOAT</b> .

Refer Material Safety Data Sheet:

## Quick Calculation Table

<b>Deep End Wall</b>	<b>Width</b> .....	<b>x</b>	<b>Depth</b> .....	<b>=</b> .....
<b>Shallow End Wall</b>	<b>Width</b> .....	<b>x</b>	<b>Depth</b> .....	<b>=</b> .....
<b>Side Walls #1</b>	<b>Length</b> .....	<b>x</b>	<b>Shallow Depth</b> .....	<b>=</b> .....
<b>#2</b>	<b>Length</b> .....	<b>x</b>	<b>Deep Depth</b> .....	<b>=</b> .....
<b>Pool Floor</b>	<b>Width</b> .....	<b>x</b>	<b>Length</b> .....	<b>=</b> .....
			<b>Total Surface Area</b>	<b>=</b> .....
<b>Litres per Coat Requirement.</b> (divide total area sq metres by 8)			<b>Litres</b>	<b>=</b> .....
<b>Recommended 2 x coats minimum</b>			<b>Total Litres</b>	<b>=</b> .....

# FLEXCO POOLCOAT EPOXY SWIMMING POOL COATING

## FLEXCO POOLCOAT Application Instruction

### FIRST DAY

#### Existing Paint

Ensure the floor is clean and free of dirt. Scrub and Rinse existing floors. Allow to dry and sand old paint. A hand held rotary orbital sander with coarse paper (40-60 grit) is ideal.

#### New Concrete

Recent concrete should be allowed to cure for 28 days. Curing compounds and sealers must be removed from the surface. Etch the surface with dilute (8 – 10%) hydrochloric acid. Carefully add 1 litre of acid to 3 litres of water in a plastic watering can. Sprinkle over or “broom” onto the floor. Use nylon broom. Concrete should “hiss” and go a darker shade. Repeat if concrete is not etched. Before the concrete has dried, flush liberally with clean water and allow to dry. Preferably overnight.

#### Caution :

Wear protective gloves, eye wear, and clothing. Always add acid to water. Do not allow acid or rinse water to go under skirting.

### SECOND DAY

#### Optional:

Sweep or vacuum floor clean again, to remove dry loose sand.

Fill all joints, hairline cracks and indents with a small amount of epoxy gap filler EPOXYPATCH.

Using a wide blade paint scraper, wipe into the joints and cracks. Wipe flush. Don't stand on wet joints while applying paint.

#### First Paint Coat

Thoroughly stir resin. Pour a measured quantity into a disposable container. A cheap plastic bucket is ideal. Add 1/3 the quantity hardener by volume. Thinning with solvent not necessary. Power stir thoroughly until completely combined. Approximately 1 minute. Cut in along walls, etc., with small paint brush. 50-60mm flat pigs bristle disposable is ideal. Use a 10mm “Dacron” paint roller to apply. Wipe or brush loose “fluff” off roller sleeve first. Work paint in well. First coat doesn't have to be thick coat. Work quickly as paint will gel after 25-30 minutes. Pour thin line of paint one metre out from back wall and roller, working backwards. Recommended two person job. One cutting in. Allow overnight cure.

### THIRD DAY

Scuff floor with coarse 60 grit sandpaper and sweep or vacuum clean again. This scuff is only to remove nibs, etc., as the paint will hide most minor imperfections. Repeat “FIRST PAINT COAT” instructions. You will require a similar amount of paint. Allow overnight cure before light foot traffic

#### You will require:

**POOLCOAT** for the job.

Disposable roller sleeves. 10mm pile x 270mm.

Packaging may say “for Water Based Paints Only”, but disregard.

Sanding machine and sandpaper.

Power drill + small diameter stirring blade (advisable)

Wide blade scraper and EPOXYPATCH or EPOXYBOG filler. Available from EPG.

Small paint brushes, 64mm pigs bristle, and clean up solvent thinners. Available from Bunnings, etc

Cheap disposable plastic buckets. Disposable plastic gloves, etc.

Cheap blue plastic tarp as ground sheet

### IMPORTANT

**POWER STIR BEFORE USE. THE CORRECT MIX RATIO RESIN TO HARDENER IS 3 PARTS RESIN TO 1 PART HARDENER. IF YOU DO NOT POWER STIR THOROUGHLY, YOU WILL EXPERIENCE THE FOLLOWING:**

- SOFT SPOTS
- HAZINESS
- STICKY PATCHES

**THIS AN APPLICATOR ERROR, AND NOT A PROBLEM WITH THE PAINT**

### Flexco (NZ) Ltd

67 Dalgety Drive, Manukau City, P: 0064 9 2686970, F: 0064 9 2686971, E: info@flexco-nz.co.nz  
P O Box 98866 South Auckland Mail Centre, Manukau City, New Zealand



**FLEXCO (N.Z.) LTD**

SOLVING TOMORROWS BUILDING PROBLEMS - TODAY