

FLOWTOP® FLOWTOP® COLOURED

A self-smoothing topping for industrial concrete floors

AREAS OF USE

- Industrial areas
- Garage workshops, showrooms, production areas, warehouses etc.
- Rough, tamped or damaged concrete prior to painting



FEATURES

- Transforms worn and pitted concrete floors
- Large areas of uneven, damaged and unsightly floors can be re-surfaced quickly and easily
- A smooth, non-dusting surface is achieved which can be overpainted if required
- Excellent resistance to pallet trucks and general industrial wear and tear
- Pre-blended for easy mixing. Just prime and pour
- Much quicker to apply than conventional toppings. Large areas can easily be resurfaced in one day
- Normally applied at only 3mm thick. Thickness can be increased to 15mm to cover very uneven areas

DESCRIPTION

Watco Flowtop® is designed as an industrial grade overlay for rough, damaged or tamped concrete. It cures to a smooth, non-dusting surface that is tough enough to withstand forklift trucks. It is not recommended as a levelling compound for existing very smooth or powerfloated surfaces. Watco Flowtop® can be left as a highly practical industrial finish or overpainted. Watco Flowtop® does not need to be overpainted and can be left as a practical, non-dusting surface. In common with cementitious products, the shade of colour may vary due to the nature of cement and site conditions. Where appearance is important Watco epoxy resin coatings may be used to coat the surface. Water based epoxy resin coatings may be used after 24-36 hours, allow 7 days before application of non water based products. Avoid paints which contain strong solvents, such as xylene. If using a solvent based paint other than a Watco product we recommend a trial area first.

Watco Epoxy Gloss Coat provides an excellent hard wearing, attractive surface. Watco Safety Coat or Safety Grip® are 100% solids anti slip coatings which promote a safer working environment. Watco Chemi-Coat® is ideal where a high degree of chemical resistance is required. We do not recommend application of Watco Concrete Floor Paint or any paint that may be affected by the residual alkalinity of the recently applied Watco Flowtop®.

SPECIFICATION

Composition	Fibre reinforced, cement based powder. A resin is added at point of use.
Number of Components	1 x powder, 1 x resin and 2 x primer.
Usage Interior/ Exterior	Interior only.
Application Tools	Mixing blade, spiked shoes, steel float or trowel, 7" spiked roller.
Suitable For	Concrete, sand & cement.
Pack Size	25kg
Coverage	Approximately 3.7m ² at 3mm thick. Approximately 2.2m ² at 5mm thick. Approximately 1.1m ² at 10mm thick. Flowtop® should not generally be applied less than 3mm thick.
Curing	Foot and light traffic may be allowed after approximately 6 hours. Ready for full use after 24-36 hours when laid at normal depths (i.e. 3-5mm) These guidelines assume an ambient temperature of approximately 15°C-20°C and good ventilation. Lower temperatures will retard curing. Do not apply at less than 5°C or above 30°C. Temperatures over 25°C can make the material sticky to apply and lead to rapid drying out causing surface crazing, especially in direct sunlight.

Cleaning Tools	Water may be used before Flowtop® starts to cure.
Cleaning	When fully cured, Watco Flowtop® can be cleaned with detergents or degreasers. Do not subject to temperatures in excess of 60°C.
Shelf Life	12 months in unopened containers.
Storage	Flowtop® should be stored for 8 hours prior to use at a temperature range of 15°C-25°C maximum. After long term or higher temperature storage the primers and bottle of resin must be shaken thoroughly. Do not allow to freeze.
Safety.	Material Safety Data Sheets are available. Food products must be removed from the area during application and cure.

STRENGTH

The surface is inherently anti slip in dry conditions. Overcoating with Watco Safety Grip is recommended if positive anti slip is required in very wet or oily areas. Watco Safety Coat is available for large areas where working conditions require a general level of slip resistance.

	Watco Flowtop®	Concrete
	Mpa	Mpa
Tensile bond strength	3.2	3.4
	MN/m ²	MN/m ²
Flexural strength	12.8	6.9
Compressive strength	29.8	29.8

COLOURS



Samples are available on request.

While great care is taken with the colour samples shown, no guarantee can be given that they represent exactly the colours offered.

PREPARATION & APPLICATION



1 Apply the primers that are included in the pack.



2 Mix the Flowtop® with water using an electric drill and mixing blade.



3 Pour out the mixed Flowtop®.



4 Spread the mixed Flowtop® with a trowel.



5 Remove any air with a spiked roller.



6 As a guide, a 25kg pack of Flowtop® will cover approx 3.7m² at 3mm thick.

SURFACE PREPARATION

Concrete – Concrete should be reasonably clean and free of loose surface material. A good sweep with a stiff broom is usually sufficient. Remove heavy oil and grease contamination using Watco Concroff Super Safe or similar degreasant. It does not matter if the concrete is damp.

Painted and sealed surfaces – Remove as much paint as possible, especially any loose or poorly bonded material. It does not matter if small traces of paint remain, providing they are well bonded. Please refer to Watco Technical Department for further advice.

Priming – Two primers are supplied. Dampen areas of bare concrete with clean cold water and leave for 20-30 minutes. Apply Primer 1 to the prepared surface using a brush or soft broom and allow it to soak into the concrete for at least 15-20 minutes. Primer 1 can be left overnight to dry if time permits. Primer 2 can be applied whilst Primer 1 is still tacky or if Primer 1 has completely dried. Apply the primers reasonably evenly to avoid ponding on the surface.

We supply sufficient Primer 2 to allow for very absorbent surfaces, and application to less absorbent surfaces will require less than we supply. Apply only as much as is required to provide a thin, reasonably even film without ponding. If excess Primer 2 is used it can bleed through the wet Flowtop and dry on the surface. Although any dried primer will wear off as the floor is put into use, it can lead to problems if the Flowtop is going to be painted and discolouration of the finished Flowtop Coloured.

MIXING

(immediately after Primer 2 has been applied)

We recommend that the complete pack of powder and resin are used rather than splitting them for separate mixes. Empty the large bottle of resin into the bucket and gradually add the powders ensuring complete dispersion, stirring and blending using a slow speed drill fitted with a mixing blade (available from Watco). If using Flowtop Coloured add the sachet of pigment along with 500ml of cold clean water. Continue mixing for approximately 3-5 minutes until an even colour and creamy consistency is obtained. The mixed components should be used immediately.

APPLICATION

Pour the mixed components on to the wet Primer 2. Using a rectangular trowel spread the mixed components across the surface of the concrete at the desired thickness. It may be convenient to work to a thin batten for depth and edge control but this must be removed before further sections are treated. It is not essential that trowel marks are removed at this stage. Immediately after application a spiked roller should be used to improve the finish and release any trapped air. Work the spiked roller uniformly across the surface rolling each area 3 or 4 times from different directions. The spiked roller should not be used more than 20 minutes after the product has been applied (less in warm or very dry conditions) as it will then start to cure and the roller marks will not disappear. Care should be taken not to tread wet primer or the mixed components onto surrounding surfaces.

Important – Do not apply to surfaces where sugars or sugar solutions have been stored or allowed to contaminate the surface.

SAFETY

Material Safety Data Sheets are available.



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