

# Strongcoat EP Flakes

Decorative vinyl-flaked epoxy flooring



## DESCRIPTION

Strongcoat EP Flakes is a vinyl-flaked epoxy floor system available in both glossy and matt finishes. This system is designed for indoor application, offering either smooth or textured surfaces to suit various application needs. Flakes are broadcast within this system to achieve a decorative finish, tailored to elevate the visual appeal of any space.

## APPLICATIONS

Strongcoat EP Flakes is used to provide a decorative and chemical resistant surface for concrete floors for a wide range of applications:

- » Pharmaceuticals.
- » Healthcare facilities.
- » Educational institutions.
- » Showrooms and retail spaces.
- » Food and beverage facilities.
- » Offices and lobbies.
- » Museums and galleries.

## ADVANTAGES

- » Solvent free.
- » Resistant to a wide range of chemicals.
- » Hardwearing system.
- » Visually appealing.
- » Customisable finish.

## METHOD OF USE

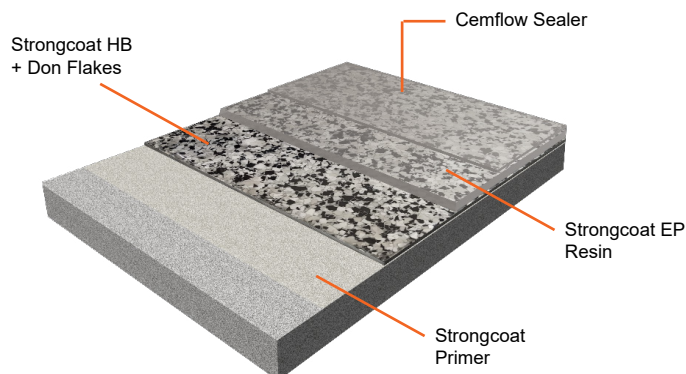
### SUBSTRATE PREPARATION

The substrate must be clean, dry, even, dense and free from oil, grease, dust and other contaminants. A clean surface will ensure maximum adhesion between the substrate and the system.

Concrete surfaces should be mechanically prepared to remove laitance and achieve a flat, smooth finish. Shot blasting, milling, or surface profiling equipment are preferred, followed by vacuum cleaning. The surfaces should be sound and free of irregularities, as these can affect the finish of the applied product.

Surface defects such as voids and blowholes should be repaired before application. Consult DCP Technical Department for the best repair material.

Concrete floors must have a minimum compressive strength of 25 N/mm<sup>2</sup> and a maximum concrete relative humidity of 75% (max. moisture content of 4%), relative humidity can be measured by using hygrometers.



Layer	Product	Consumption	
		Seamless Finish	Textured Finish
Priming	Strongcoat Primer	0.2 kg/m <sup>2</sup>	
Base Coat Layer	Strongcoat HB	0.3 kg/m <sup>2</sup>	
	Don Flakes*	1.45 kg/m <sup>2</sup>	
Topcoat Layer	Strongcoat EP Resin	1 <sup>st</sup> coat: 0.35 kg/m <sup>2</sup> 2 <sup>nd</sup> coat: 0.5 kg/m <sup>2</sup>	One coat: 0.35 kg/m <sup>2</sup>
Sealing (for matt finish)	Cemflow Sealer	Two coats 0.052 kg/m <sup>2</sup> /coat	

*\*Coverage rates may vary depending on the flake size. The mentioned coverage rates are based on 2 mm flakes.*

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## PRIMING

Prior to mixing, stir the individual components of Strongcoat Primer. Ensuring that the bottom and sides are thoroughly scraped, transfer the entire contents of the hardener into the base and mix for 2 - 3 minutes using a slow-speed mixer fitted with a suitable paddle.

Concrete substrates should be primed with Strongcoat Primer using a brush or lambswool roller. Spread evenly at the recommended coverage rate, avoiding any primer ponding on the floor. Highly porous surfaces may require two coats of primer.

## BASE COAT LAYER

To ensure consistent workability and pot life, store all materials in a shaded area protected from temperature extremes for at least 24 hours before application.

Prior to mixing, stir the individual components of the resin and hardener. Transfer the entire contents of the hardener pack into the base container and mix thoroughly for at least 3 minutes. Apply the mixed Strongcoat HB to the prepared surface using a brush, lambswool roller or airless spray machine.

Immediately after application, scatter the chosen flakes over the surface, adjusting the coverage rate based on the size of the flakes. For a full blind application, systematically distribute the flakes across the entire surface, either by throwing or pouring them evenly.

Once the Strongcoat HB has fully cured and the flakes have set, use a steel scraper to remove any protrusions, and vacuum up any excess flakes.

## TOPCOAT LAYER

Prior to mixing, stir the individual components of the resin and hardener. Transfer the entire contents of the hardener pack into the base container and using a Jiffy-type mixer attached to a slow running electric drill, mix thoroughly for approximately 2 minutes until a uniform consistency is achieved.

Ensure a homogeneous mixture before proceeding. Once mixing is complete, pour the mixed Strongcoat EP Resin to the primed surface and spread evenly using a roller. For a textured finish, apply one coat. For a seamless finish, apply a second coat using a rake.

## SEALING (FOR MATT FINISH)

Begin by mixing Component A with Component B for at least two minutes using a high-speed mixer, such as a drill with a paddle attachment. Allow the mixture to rest for five minutes, then remix to achieve a consistent texture at a slow speed.

Cemflow Sealer can be applied using a short nap roller or an airless sprayer for complete and even coverage. Spraying is recommended to achieve the most consistent finish, applying the sealer in one or two coats as needed.

When using a roller, start by saturating the roller to account for the material it will absorb, approximately 250 – 400 ml. Begin the application by cutting in the edges with a brush or a small roller.

Pour the neat Cemflow Sealer into a roller tray and apply it evenly in one direction across the surface. Then cross roll in the opposite direction to minimize roller marks, being careful not to overlap more than 50 mm onto the previous pass.

When applying a second coat of Cemflow Sealer, it is recommended that this be applied at an angle of 90 degrees to the first coat to ensure complete coverage. Under typical conditions, a second coat can be applied approximately 10 – 12 hours after the first.

*Note: Cemflow Sealer cannot prevent the underlying layers, including the flakes, from yellowing if they are prone to UV or sunlight exposure.*

## CLEANING

For Strongcoat Primer, Strongcoat HB and Strongcoat EP Resin, all tools should be cleaned immediately after application using DCP Solvent. Hardened materials must be cleaned mechanically. For Cemflow Sealer, all tools should be cleaned immediately after application with warm soapy water.



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## **PACKAGING**

Strongcoat Primer is available in 5 kg packs.  
Strongcoat HB is available in 6 kg, 18 kg and 30 kg packs.  
Don Flakes are available in 25 kg bags.  
Strongcoat EP Resin is available in 5 kg and 15 kg packs.  
Cemflow Sealer is available in 5 kg packs.

## **STORAGE**

Strongcoat Primer, Strongcoat HB and Strongcoat EP Resin have a shelf life of 12 months from date of manufacture when stored in their original, unopened containers and kept under proper conditions, with temperatures ranging from 10°C to 35°C.

Cemflow Sealer has a shelf life of 6 months from date of manufacture when stored in original, unopened containers and kept under proper conditions, with temperatures ranging from 5°C and 30°C.

If these conditions are exceeded, contact DCP Technical Department for advice.



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## MORE FROM DON CONSTRUCTION PRODUCTS

A wide range of construction chemical products are manufactured by DCP which include:

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

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**Note:**

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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