

# Strongcoat EP Decorative Screed

Two-component transparent epoxy binder for creating aggregate screed system



## DESCRIPTION

Strongcoat EP Decorative Screed is a two-component, solvent-free transparent epoxy binder designed for creating aggregate surface systems.

The system provides a wide variety of finishes which are dependent on the type, colour and size of the used aggregates along with their mixing proportion with the resin. The system can be applied at 5 - 50 mm thickness based on the size of aggregate used.

## APPLICATIONS

Strongcoat EP Decorative Screed is used to provide an extremely hard wearing natural looking floors for a wide range of applications such as:

- » Public footpaths.
- » Driveways and car parks.
- » Pool surrounds.
- » Garden paths.
- » Decorative landscaping.
- » Shopping centres.
- » Residential buildings.

## ADVANTAGES

- » Hard wearing system.
- » Solvent free.
- » Non-slip.
- » Permeable.
- » Natural appearance.
- » Low maintenance.
- » Enhances the natural color of aggregate used.
- » Permeable (dependent on mix design and application).
- » Resistant to a wide range of chemicals, consult with DCP technical department for more details.

## METHOD OF USE

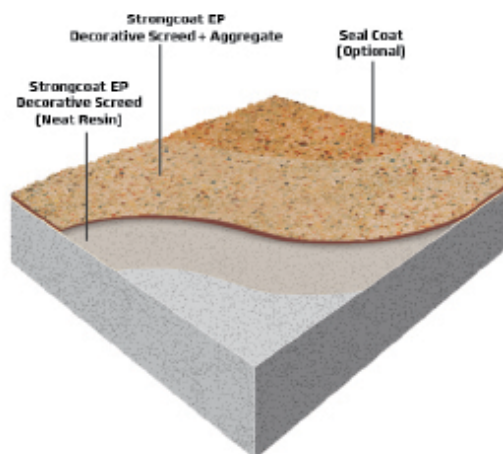
### SUBSTRATE PREPARATION

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 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.

### TECHNICAL PROPERTIES FOR THE NEAT MIXED RESIN (WITHOUT AGGREGATE) @ 25°C:

Appearance:	Transparent liquid
Mixed density:	1.1 ± 0.1 g/cm <sup>3</sup>
Pot life:	30 - 50 min
Compressive strength: BS 6319, part 2	≥ 38 MPa @ 7 days
VOC: ASTM D2369	≤ 20 g/ltr (comply with LEED)



Concrete relative humidity should be less than 75% for concrete of 28 days old or more, for low W/C ratio concrete floors, 75% hygrometer reading or less can be achieved before 28 days age.

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment. In case of areas deeply contaminated by oil or grease, such areas should be treated with hot compressed air.

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## PRIMING

Prepared substrates should be primed using the mixed resin only without the addition of aggregates. Use lamb wool roller to apply the primer at a coverage rate of 5 - 6 m<sup>2</sup>/kg.

Work the primer well into the surface of the concrete and whilst it is wet, dress the surface with aggregate to be used at a rate of 0.2 - 0.5 kg/m<sup>2</sup> and allow to dry, this will help in the spreading and application of the screed mix.

## MIXING

Transfer the entire contents of the hardener pack into the base container. Using a Jiffy-type mixer attached to a slow running electric drill, mix thoroughly for approximately 2 minutes. Ensure a homogeneous mixture before proceeding.

Pour the mixed resin into a Casco or Creteangle-type mixer. Start the mixer and gradually add the specified amount of aggregates. Continue to mix for approximately 3 minutes, until the aggregates are fully coated and the mixture is uniform.

*Important: Never mix by hand as this could lead to areas of uncured material.*

## APPLICATION

Once mixing is complete, transfer Strongcoat EP Decorative Screed to the primed surface and using a straight-edged steel trowel or a screed laying box, apply it evenly.

After application and depending on the aggregate size and shape and the needed surface finish, a hand mechanical trowel can be used to provide a more compacted and levelled surface.

*Note: Excess compacting will affect the permeability of the screed.*

## REMARKS

- » Strongcoat EP Decorative Screed should not be applied on to surfaces which are known to suffer from damp rising.
- » Strongcoat EP Decorative Screed should not be applied at temperatures below 10°C or where ambient relative humidity exceeds 80%.
- » Strongcoat EP Decorative Screed may yellow under UV exposure.

## SEALING

If a sealed surface is required, the following seal coat options are possible:

*Enhanced glossy finish for indoor applications:*

Strongcoat EP Decorative Screed binder is used, after mixing properly pour the product onto the floor and spread it out evenly and uniformly in 1 - 2 coats using a roller or roller until all the pores on the coating surface are completely coated.

*Glossy finish for outdoor applications:*

Repcoat P Clear; which is a two component aliphatic polyurethane clear coat, is used. Repcoat P Clear should be applied by roller or brush until all the pores on the coating surface are completely coated. For more information, refer to Repcoat P datasheet or consult DCP's Technical Department.

*UV stable matte finish:*

Cemflow Sealer; which is a two-component water based, polyurethane screed sealer, is used. Cemflow Sealer should be applied by roller or brush until all the pores on the coating surface are completely coated. For more information, refer to Cemflow Sealer datasheet or consult DCP's Technical Department.

*Note: The application of a sealer can impair the slip resistance of the floor; based on size and shape of aggregates used, when subject to wet conditions. Sealer will also impair permeable properties of the system.*

# Strongcoat EP Decorative Screed

## **CLEANING**

Strongcoat EP Decorative Screed can be cleaned by using DCP solvent prior setting.

## **PACKAGING**

Strongcoat EP Decorative Screed (neat resin) is available in 30 kg packs.

## **MIXING RATIO**

The mixing ratio for the resin mix with the aggregate is highly dependent on the aggregate size and shape, a recommended start-up mix ratio is as follows:

Resin "base and hardener" 1 kg: Aggregate 8 - 10 kg.

## **THICKNESS RANGE**

5 - 50 mm, depending on aggregate size and shape.

## **COVERAGE**

The actual coverage rate of Strongcoat EP Decorative Screed depends on the size of the aggregate and the mixing proportion between the resin and aggregate. However, the approximate coverage rate of the mixed product is in range of 10 m<sup>2</sup> per 100 kg mixed screed at 5 mm thickness.

## **STORAGE**

Strongcoat EP Decorative Screed has a shelf life of 12 months from date of manufacturing if stored in dry conditions at a temperature of 25°C in original unopened packs.

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

## **CAUTIONS**

### **HEALTH AND SAFETY**

Strongcoat EP Decorative Screed should not come in contact with skin or eyes. Goggles and gloves should be used.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

For further information refer to the Material Safety Data Sheet.

### **FIRE**

Strongcoat EP Decorative Screed is nonflammable.



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