

# Strongcoat CR

High chemical resistance epoxy resin protective coating for horizontal and vertical applications



## DESCRIPTION

Strongcoat CR is a two-component epoxy resin coating with high chemical resistance. It is designed to provide a hard, glossy coating for concrete and steel surfaces in both horizontal and vertical applications.

## APPLICATIONS

Strongcoat CR is used as a protective, decorative and hard-wearing coating for many applications, including:

- » Industrial and commercial kitchen.
- » Protective coating for concrete and steel.
- » Hospitals and pharmaceutical factories.
- » General food processing and manufacturing plants.
- » Soft drink and beverage production areas.
- » Fish and meat processing plants.

## ADVANTAGES

- » High chemical and mechanical resistance.
- » Available in a range of colours.
- » Produces a seamless glossy finish.
- » Easy to clean.
- » Does not induce bacterial and fungal growth.

## METHOD OF USE

### SURFACE PREPARATION

Ensure that all pinholes and grooves in the prepared substrate are properly filled using suitable epoxy putty materials prior to the application of subsequent layers. This is crucial to prevent pinhole reflection and to achieve a smooth, seamless finish.

The surface must be clean, dry (less than 75% RH measured by hygrometer) and free from dust, laitance, oils, paints or other forms of contamination. Grit blasting can be used to remove laitance and surface contamination (see DCP Guide to Surface Preparation for further details).

### PRIMING

Strongcoat CR has excellent adhesion to concrete and priming is not normally necessary. If the substrate is particularly porous, a priming coat of Strongcoat Primer is recommended. If the substrate has a humidity reading greater than 75%, it is recommended that Strongcoat DPM be used prior to coating with Strongcoat CR.

## TECHNICAL PROPERTIES:

Colour:	Available in various colours
Mixed density:	1.50 ± 0.10 g/cm <sup>3</sup>
Pot life:	30 - 40 min @ 20°C
Full curing time:	7 days @ 20°C 5 days @ 35°C
Compressive strength:	≥ 60 N/mm <sup>2</sup>
Bond strength:	≥ 2.0 N/mm <sup>2</sup>
Taber abrasion resistance: ASTM D4060 (1000 g , 1000 cycle) weight loss, CS17 wheel	85 milligrams

## MIXING

Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the hardener and resin container into a mixing bucket and, using a jiffytype mixer attached to a slow-running electric drill, mix for approximately two minutes.

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

## APPLICATION

Once mixing is complete, transfer the Strongcoat CR to a roller tray and, using a medium-pile simulated sheepskin roller, apply it evenly over the surface.

## CURING TIME

At 20°C Strongcoat CR should be allowed to cure for 24 hours prior to opening it to pedestrian traffic. At the same temperature, Strongcoat CR should be allowed to cure for approximately seven days prior to opening it to vehicular traffic or exposing it to chemical contamination (consult our Technical Department for details of curing times at other temperatures).

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## OVERCOATING

The second coat of Strongcoat CR must be applied between 12 and 24 hours at 20°C after the first coat has cured. Additionally, the first coat of Strongcoat CR must not be contaminated prior to applying the second coat.

## WORKING CONDITIONS

Strongcoat CR should not be applied at temperatures less than 10°C.

## CLEANING

Once mixing and application are complete, tools can be cleaned with a suitable solvent.

## PACKAGING

Strongcoat CR is available in 20 kg packs.

## COVERAGE

Approximately 3 - 4 m<sup>2</sup>/kg to achieve 200 microns dry film thickness per coat.

*Important: This coverage figure is based on application to a smooth, dense surface. Coverage figures will vary according to the texture, porosity and evenness of the surface on which Strongcoat CR is being applied.*

## STORAGE

Strongcoat CR has a shelf life of 12 months from date of manufacture if stored in dry conditions at temperatures between 5°C and 30°C in original unopened packs.

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

## OCCASIONAL SPILLAGE

### Chemical Resistance (Spot - test @ 1 hr)

#### Aqueous Solutions

Sodium Chloride sat	R
Chlorinated Water	R
Ferric Sulphate 12%	R

#### Solvents

Xylene	R
White Spirit	R
Toluene	RS
Acetone	R
Ethanol	R

#### Oils & Fuels

Engine Oil	R
Diesel	R
Brake Fluid	R
Kerosene	R

#### Organic Acids

Oleic Acid	R
Citric Acid 25%	R
Vinegar 10%	R

#### Inorganic Acids

Hydrochloric Acid 15%	R
Sulphuric Acid 25%	R
Nitric Acid 25%	R
Phosphoric Acid 20%	R

#### Inorganic Bases

Sodium Hydroxide 50%	R
Ammonia 10%	R
Potassium Hydroxide 50%	R
Sodium Hydroxide 27%	R

R: Resistant

RS: Resistant with slight discolouration

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## CAUTIONS

### HEALTH AND SAFETY

Strongcoat CR 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.

### Chemical Resistance (Immersion @ 7 days)

#### Aqueous Solutions

Ferric Sulphate 12% R

#### Solvents

Xylene R

Ethanol R

#### Oils & Fuels

Engine Oil R

Diesel R

Brake Fluid R

Skydrol R

#### Organic Acids

Oleic Acid RD

Citric Acid 20% R

Vinegar 10% R

#### Inorganic Acids

Hydrochloric Acid 10% R

Sulphuric Acid 25% R

Nitric Acid 10% R

Phosphoric Acid 20% R

#### Inorganic Bases

Ammonia 10% R

Sodium Hydroxide 27% R

*R: Resistant*

*RD: Resistant with obvious discolouration*

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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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DCP Building Excellence