

# Strongcoat HR130

Two component heat resistant epoxy modified cementitious coating



## Description

Strongcoat HR130 is a solvent free, heat resistant epoxy modified cementitious coating for the protection of concrete, mortar and stone surfaces as well as steel.

## Applications

Strongcoat HR130 is designed for applications such as:

- ▲ Heavy duty protective coating for concrete surfaces.
- ▲ Protection of concrete sea water channels.
- ▲ Water treatment plants.
- ▲ Boiling water tanks and water stations.
- ▲ Desalination plants.

## Advantages

- ▲ Can be applied without primer.
- ▲ Mold resistant.
- ▲ Solvent free.
- ▲ High build.
- ▲ Abrasion resistant.
- ▲ Corrosion resistant.
- ▲ Resist thermal shock and freeze-thaw cycles.
- ▲ Withstands temperatures up to 130°C.

## Method of Use

### Surface Preparation

#### Concrete surfaces:

Surface to be coated should be sound and free from oil, grease, mold and fungus, and any loose materials.

#### Steel surfaces:

Steel surfaces should be grit blasted to reach a bright finish meeting the SA21/2 standard. Strongcoat HR130 should be applied as soon as possible after blasting to avoid rust forming.

## Mixing

Base and hardener components should be stirred separately. Add the contents of the hardener container to the base container and mix using slow speed mixer or a slow speed drill fitted with suitable paddles. Mixing should continue for 3 minutes or until a homogeneous mix is obtained.

### Technical Properties @ 25°C:

Colour	Grey
Solids by weight:	100%
Mixed density:	1.6 ± 0.05 g/cm <sup>3</sup>
Pot life:	60 min @ 25°C
Touch dry:	6 - 8 hr
Re-coatable:	8 - 20 hr
Full cure:	7 days
Bond strength: ASTM D4541-85	3.5 MPa (concrete failure)
Bond strength after 200 hours water boil: ASTM D4541-85	2 MPa (concrete failure)
Water absorption: ASTM D570	< 0.1%
Physical effects after 600 hours water boil:	No cracking, chalking, softening, blistering or debonding

## Application

Two coats of Strongcoat HR130 should be applied. The product can be applied using brush, roller and can be spray applied. First coat should be applied uniformly onto the surface at 200 microns thickness.

The second coat should be applied similarly to the first coat between 8 hours and 20 hours (@ 25°C) after applying the first coat.

For exposed areas, it is recommended that Strongcoat HR130 is covered by a polyurethane protective coating from Repcoat range of products.

## Cleaning

All tools should be cleaned immediately after application using DCP Solvent. Hardened materials must be cleaned mechanically.

## Packaging

Strongcoat HR130 is available in 5 kg packs.

# Strongcoat HR130

## Coverage

Approximately 1 kg/3 m<sup>2</sup> per coat. Two coats should be applied to achieve 400 microns dry film thickness.

## Storage

Strongcoat HR130 has a shelf life of 12 months from date of manufacture if stored in dry conditions at room temperature in original unopened packs.

If these conditions are exceeded, DCP Technical Department should be contacted for advise.

## Cautions

### Health and Safety

Strongcoat HR130 should not come in contact with skin and eyes.

In case of accidental splashes to the eyes, rinse thoroughly with clean water and seek medical advise immediately. Suitable protective gloves and goggles should be worn. Do not use solvents to clean Strongcoat HR130 from skin.

For further information refer to the Material Safety Data Sheet.

### Fire

Strongcoat HR130 and DCP Solvent are flammable. Ensure adequate ventilation. Do not use near a naked flame and do not smoke during use.

## 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.

### Occassional Spillage.

**Chemical Resistance after full cure (7 days @ 25°C), ASTM D1308 (Spot - test @ 1 hr)**

#### Organic Acids

Oleic Acid sat.	R
Citric Acid 25%	R
Vinegar 5%	R

#### Inorganic Bases

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

#### Aqueous Solutions

Sugar Solution sat.	R
Sodium Chloride sat.	R
Tap Water	R
Distilled Water	R
Chlorinated Water	R
Dead Sea Water	R
Urea Solution 80%	R

#### Oils & Fuels

Benzyl Alcohol	SS
Brake Fluid	R
Engine Oil	R
Diesel	R
Kerosene	R
Detergents & Soaps	R

#### Inorganic Acids

Sulphuric Acid 25%	R
Phosphoric Acid 20%	R
Hydrochloric Acid 32%	RS
Nitric Acid 10%	R

*R: Resistant*

*RS: Resistant with slight discoloration*

*SS: Slight softening*

#### Note:

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.