

Strongcoat PE730

Two component high solids coal tar epoxy coating



DESCRIPTION

Strongcoat PE730 is a two component amine cured high solids coal tar epoxy. The product has excellent chemical resistance and adhesion properties which makes it particularly suitable for sewage treatment plants, chemical plants and for aggressive environments.

Strongcoat PE730 is suitable for use on concrete and steel surfaces.

APPLICATIONS

Strongcoat PE730 is designed for use in applications such as:

- » Sewage treatment plants and chemical plants.
- » Protection of concrete and steel structures submerged in sea water or exposed to tidal or splash zones.
- » Lining of manholes, pipes, jetties, piers, ducting and foundations waterproofing.

ADVANTAGES

- » Excellent adhesion to concrete and steel surfaces.
- » High film build up to 350 microns in one coat.
- » Excellent water and salt water resistance.
- » Cost effective; does not require primer.
- » Low residual odour.
- » Suitable for use as a waterproof coating.
- » High chemical resistance.
- » Does not support bacterial growth.
- » High abrasion resistance.
- » Contains 70% epoxy resin and 30% coal tar in the cured liquid part of the product.

METHOD OF USE

SUBSTRATE PREPARATION

Concrete surfaces:

The substrate should be sound, clean and free from contamination. Surface laitance should be removed by grit blasting or water jetting. All blow holes should be filled with epoxy paste such as Quickmast 341.

Steel Surfaces:

All surfaces should be grit blasted to reach a bright finish meeting the requirement of Swedish Standard SA 2 1/2.

TECHNICAL PROPERTIES:

Mixed density:		1.35 ± 0.10 g/cm ³
Solid content:	by weight	78 ± 3%
	by volume	68 ± 3%
Colour:		Black
Pot life:		2 - 3 hr @ 25°C
Tack free time:		4 - 6 hr @ 25°C
Overcoating time:		24 hr @ 25°C
Full cure:		7 days @ 25°C
Bond strength on C25/30 concrete: ASTM D4541		≥ 2 MPa (concrete failure)
Permeability: DIN 1048 @ 700 microns dft		Nil @ 2 bar pressure over 7 days
VOC: ASTM D2369		< 325 g/ltr

MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. Stir the content of each component separately to disperse any settlement.

Add the entire content of the hardener to the base and mix for 3 minutes and until uniform colour and consistency are achieved.

APPLICATION

Strongcoat PE730 can be applied by brush, roller or airless spray machine. The first coat should be applied to obtain a continuous uniform coating. The second coat should be applied within the overcoating time to achieve the maximum adhesion between coats.

DCP Saudi Co.

Sulay, Industrial Area, Istanbul St., Riyadh
Industrial City 3, Jeddah
Saudi Arabia
info.saudi@dcp-int.com
www.dcp-int.com

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Notes:

- » The area where Strongcoat PE730 is going to be applied must be well ventilated for at least 24 hours, and must not have high relative humidity or any presence of running water.
- » Strongcoat PE730 must not be applied over other coats, but only over itself within the recoatable time.
- » Application of Strongcoat PE730 should not be done at low temperatures (below 8°C).
- » UV light and some chemicals may change the colour of Strongcoat PE730 especially when the coat is still not fully cured (7 days). However, this colour change does not affect the performance of the coating.

CLEANING

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

PACKAGING

Strongcoat PE730 is available in 25 kg packs (18.5 ltr).

COVERAGE

0.7 kg/m² per coat to achieve 350 microns dry film thickness. Two coats should be applied to achieve 700 microns dry film thickness.

STORAGE

Strongcoat PE730 has a shelf life of 12 months from date of manufacture if stored in dry conditions at a temperature of 25°C in original unopened packs.

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

CHEMICAL RESISTANCE AFTER FULL CURE (7 DAYS @ 25°C) ASTM D1308 (AFTER 7 DAYS IMMERSION IN THE BELOW CHEMICALS)

Organic Acids

Acetic Acid 5%	SS + D
Lactic Acid 10%	RS

Inorganic Bases

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

Aqueous Solutions

Sodium Chloride sat.	R
Tap water	R
Dead Sea water	R

Solvents

Benzyl Alcohol	R
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Oils & Fuels

Brake Fluid	R
Engine Oil	R
Diesel	R
Detergents & Soaps	R
Kerosene	R

Inorganic Acids

Sulphuric Acid 25%	R
Phosphoric Acid 20%	RS
Hydrochloric Acid 10%	RS
Nitric Acid 10%	SS + D

R: Resistant

RS: Resistant with slight discoloration

SS: Slight softening

D: Discoloration

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CAUTIONS

HEALTH AND SAFETY

Strongcoat PE730 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 PE730 is flammable. Ensure adequate ventilation.

Flash point: ≈ 39°C.

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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