

Strongcoat PE350

Two component solvent based coal tar epoxy resin coating system



DESCRIPTION

Strongcoat PE350 is a two component amine cured coal tar epoxy. The product has excellent chemical resistance properties which makes it particularly suitable for sewage treatment plants and for aggressive environments. Strongcoat is suitable for use on concrete and steel surfaces.

APPLICATIONS

Strongcoat PE350 is designed for use in applications such as:

- » Sewage treatment 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.
- » Cost effective; does not require primer.
- » Suitable for use as a waterproof coating.
- » High chemical resistance.
- » Does not support bacterial growth.
- » High abrasion resistance.
- » Can be applied to green concrete.
- » Can be applied at 350 micron thickness per coat.

STANDARDS

Strongcoat PE350 complies with:

- » The chemical resistance requirements when tested in accordance with ASTM D1308.
- » BS 5493 reference to KF3 B (Two-pack chemical-resistant finishes, modified epoxy coal tar).

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:

Colour:	Black
Mixed density:	1.50 ± 0.05 g/cm ³
Solid content:	94 ± 2%
Volume solid:	90 ± 2%
Pot life:	3 - 4 hr @ 25°C 1 - 2 hr @ 35°C
Full cure:	After 7 days @ 25°C
Over coating time:	1 day @ 25°C
Tensile strength: ASTM D412	> 2.0 MPa @ 7 days
Water absorption: ASTM D570	< 0.08%
Service temperature:	-10 to 55°C
VOC: ASTM D2369	< 110 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 PE350 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 over coating time to achieve the maximum adhesion between coats.

Notes:

- » The area where Strongcoat PE350 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 PE350 must not be applied over other coats, but only over itself within the recoatable time.
- » Application of Strongcoat PE350 should not be done at low temperatures (below 8°C).
- » Strongcoat PE350 especially when the coat is still not fully cured, (7 days). However, this colour change does not affect the performance of the coating.

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CLEANING

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

PACKAGING

Strongcoat PE350 is available in 25 kg packs.

COVERAGE

0.54 kg/m²/coat.

Two coats should be applied to achieve 700 microns dry film thickness.

STORAGE

Strongcoat PE350 has a shelf life of 18 months from date of manufacture if stored in dry conditions at a temperature between 15°C and 30°C in original unopened Packs.

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

CAUTIONS

HEALTH AND SAFETY

Strongcoat PE350 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 advise if necessary.

For further information refer to the Material Safety Data Sheet.

FIRE

Strongcoat PE350 is flammable.

Flash Point: ≈ 50°C.

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

Organic Acids

Oleic Acid sat.	R
Vinegar 10%	SS

Inorganic Bases

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

Aqueous Solutions

Sodium Chloride sat	R
Tap Water	R
Chlorinated Water	R
Dead Sea Water	R

Solvents

White Spirit	R
Xylene	R
Toluene	R

Oils & Fuels

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

Inorganic Acids

Sulphuric Acid 40%	R
Nitric Acid 10%	R

R: Resistant

RS: Resistant with slight discoloration

SS: Slight softening

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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

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