

SpECcoat PE400

COAL TAR PITCH, EPOXY COATING

DESCRIPTION

SpECcoat PE400 is a two part, solvent free, epoxy resin coating system modified with specially refined coal tar pitch. The product produces a high build, semi-flexible corrosion resistant coating offering excellent adhesion to a wide variety of substrates and superior chemical resistance.

TYPICAL USES

SpECcoat PE400 is particularly suited to the following situations:

- Sewage tank protection
- Sewage pipes, man-holes and effluent plants
- Chemical plant linings
- Coating steel, concrete and fibre cement pipes

ADVANTAGES

- Resistant to a wide range of chemicals (see Chemical Resistance Chart)
- Excellent adhesion, flexibility and waterproof characteristics
- High build abrasion resistant coating
- Can be laminated with glass fibre, if required
- May be applied by brush, roller or air less spray

TECHNICAL DATA

Specific gravity	1.43 @ 20°C
Solids content	100%
Pot life	1 hour @ 20°C
Overcoating time	8-24 hours @ 20°C
Full cure	7 days @ 20°C
Service temperature	
Dry	-30°C to +65°C
Typical system thickness	400µm

CHEMICAL RESISTANCE CHART

ACIDS

10% Sulphuric acid	Excellent
Hydrochloric acid	Excellent
10% Phosphoric Acid	Excellent
10% Hydrofluoric acid	Excellent
Citric acid	Excellent
Conc. Sulphuric acid	Good
Conc. Hydrochloric acid	Good
Conc. Phosphoric acid	Good

ALKALIS

Sea water	Excellent
Dilute Sodium Hydroxide	Excellent
Ammonia salts	Excellent
Sodium Carbonate	Excellent
Calcium Carbonate	Excellent
Dilute Ammonia Hydroxide	Excellent
Conc. Sodium Hydroxide	Good
Conc. Ammonia Hydroxide	Good

SALT SOLUTIONS

Potassium/Aluminium Sulphate	Excellent
Ferrous Sulphate	Excellent
Calcium Chloride	Excellent
Sodium Phosphate	Excellent
Copper Phosphate	Excellent
Sodium Chloride	Excellent
Sodium Sulphate	Excellent
Sodium Acetate	Excellent

FATS & OILS

Animal	Excellent
Vegetable	Excellent
Mineral	Good

Note:

- **SpECcoat PE400** should not be subjected to chemicals until fully cured.

APPLICATION

Preparation

It is essential that adequate preparation is carried out prior to the application of **SpECcoat PE400**.

For concrete and steel surfaces, grit blasting is re-commended. Steel surfaces should be prepared to SA2½ Standard. The preparation should ensure the removal of old coatings, laitance, grease and oil.

Any imperfections or 'blow holes' should be filled using **SpECcoat BC**.

Mixing

SpECcoat PE400 is supplied in a two-component kit consisting of base resin and curing agent components. The two parts are produced in the correct proportions for mixing. Part mixing of the packs should not be attempted.

Both of the components should be briefly stirred to ensure that any settlement products are fully suspended.

Empty the contents of the base component tin into the curing agent tin. To ensure that all of the base component is removed, the inside of the tin should be scraped. The material should then be mixed using a suitable slow speed electric drill with a spiral paddle attachment for three to five minutes until the product appears uniform.

Application

SpECcoat PE400 may be applied by brush, roller or airless spray. The application should produce an even coverage without pinholes.

EQUIPMENT CLEANING

All equipment may be cleaned of uncured material using **SpECcoat Cleaning Fluid**.

PACKAGING & YIELD

SpECcoat PE400 is supplied in the pack sizes given below with the following recommended coverage rates:

SpECcoat PE400

4.5 litres and 15 litres

@200µm wft: 5.0m²/litre per coat
(minimum 2 coats)

APPLICATION TEMPERATURE RANGE

Minimum 5 °C

Maximum 35 °C

At temperatures above the quoted maximum the pot life will be reduced.

STORAGE AND SHELF LIFE

When stored in a cool environment in original unopened containers, the material has a shelf life of 12 months.

HEALTH AND SAFETY

Contact with skin and eyes should be avoided. It is essential that adequate ventilation is provided and all personnel should avoid inhaling the vapours produced. If working is necessary in confined areas it is strongly recommended that sealed respiratory equipment is utilised.

Eye contact

rinse with copious amounts of clean water and seek medical attention.

Skin contact

rinse with copious amounts of clean water followed by thorough cleaning with soap and water.

DO NOT USE SOLVENTS

Ingestions

seek immediate medical attention.

DO NOT INDUCE VOMITING

FLAMMABILITY

SpECcoat Cleaning Fluid is flammable. Do not expose to naked flames or other ignition sources.

FLASH POINT**SpECcoat PE400**

>150 °C

SpECcoat Cleaning Fluid

>40 °C

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If it is proven that the product does not perform as described in our TDS, SpEC's liability extends solely to the free replacement of product, once the claim has been accepted after due investigation by SpEC. SpEC will not entertain any claims involving any form of consequential costs or damages such as shipping costs, custom duties, damages to third parties, damages to structures, penalties from delay of a project or any other form of consequential damage.

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