

SpECcoat PE145

SOLVENT BASED PITCH EXTENDED EPOXY RESIN COATING

DESCRIPTION

SpECcoat PE145 is a two part, solvent based, epoxy resin coating system modified with specially refined coal tar pitch. The coating once cured provides a semiflexible waterproof corrosion resistant coating with excellent adhesion to a wide variety of substrates and good chemical resistance.

TYPICAL USES

To provide economic protection to concrete and metal structures in aggressive environments: Particularly useful and economic in dirty water situations such as:

- Sewage plants
- Effluent plants
- Docks
- Harbour installations

ADVANTAGES

- Good abrasion resistance and waterproofing properties
- Resistant to a wide range of chemicals (see Chemical Resistance chart)
- Provides long term protection
- No primer required for sound concrete substrate (consult our Technical Department)
- Economic and versatile

TECHNICAL DATA

Volume solids	72%
Pot life	4 hours @ 20°C
Overcoating time	16 24 hours @ 20°C
Full cure	7 days @ 20°C
Service temperature	
Dry	30°C to +65°C
Adhesion strength	≥2.5 MPa
Typical system thickness	145 µm (min. 2 coats)

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

APPLICATION

Preparation

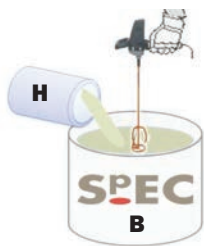
It is essential that adequate preparation is carried out prior to the application of **SpECcoat PE145**.

For concrete and steel surfaces, grit blasting is recommended. Steel surfaces should be prepared to bright metal 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 PE145 is supplied in a two-component kit consisting of a base component and a curing agent.



The contents of the base can should be stirred thoroughly to disperse any settlement. The entire contents of the hardener can should then be added

to the base container and mixed thoroughly until a uniform colour and consistency are obtained, taking particular care to scrape the sides and bottom of the container. It is recommended that mechanical mixing be employed using a Jiffy mixer on a heavy duty, slow speed electric drill.

Application

SpECcoat PE145 may be applied by brush, roller or airless spray. The application should produce an even coverage without pinholes.

The first coat should be worked well into the surface. The top coat should then be applied within 24 hours. Any condensation that has formed on the first coat should be wiped off before applying the second coat.

EQUIPMENT CLEANING

SpECcoat PE145 should be removed from tools and equipment with **SpECcoat Cleaning Fluid** immediately after use. Cured material can only be removed mechanically.

PACKAGING AND YIELD

SpECcoat PE145 is supplied in the pack sizes given below with the following recommended coverage rates:

SpECcoat PE145

4.5 litres and 15 litres

@200µm wft: 5.0 m²/litre applied in 2 coats

APPLICATION TEMPERATURE RANGE

Minimum	5 °C
Maximum	35 °C

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 utilized.

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

Ingestion

Seek immediate medical attention.

DO NOT INDUCE VOMITING

FLASHPOINT

SpECcoat PE145

>60 °C

SpECcoat Cleaning Fluid

>40 °C

FLAMMABILITY

SpECcoat PE145 and **SpECcoat Cleaning Fluid**

are flammable. Do not expose to naked flames or other sources of ignition.

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Whilst the information and/or specifications given are, to the best of our knowledge, true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents or distributors as the conditions of use and labour involved are beyond our control.

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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