









SPECcoat CRE200

NON-TOXIC, MOISTURE TOLERANT, SOLVENT-FREE EPOXY RESIN COATING

DESCRIPTION

SpECcoat CRE200 is a two-pack, solvent-free, epoxy resin coating. It is supplied in pre-measured quantities ready for mixing on site. The product, on curing, produces a smooth, tough, chemical resistant coating.

SpECcoat CRE200 may be used as a protective coating for concrete and mild steel. The coating, once cured, is resistant to common chemicals and abrasion. It is particularly suited for applications in water tanks, waste water treatment environments, dairies, food processing plant, abattoirs and grain silos.

ADVANTAGES

- Non-toxic
- Solvent-free therefore may be used in confined areas
- · High build
- · No primer required on concrete or mild steel
- · Easily cleaned surface
- Resistant to a wide range of chemicals
- · Corrosion and abrasion resistant

STANDARD

thickness

SpECcoat CRE200 complies with BS 6920: Part 1 as a coating suitable for contact with potable water

TECHNICAL DATA

Typical values @ 20 °C

Solids content 100%

Gel time (minutes) 80 - 120

Overcoating times (hrs) 8 - 20

Full cure 7 days

Typical system

400µm

CHEMICAL RESISTANCE CHART

ACIDS

Excellent 10% Sulphuric acid Excellent Hydrochloric acid Excellent 10% Phosphoric Acid 10% Hydrofluoric acid Excellent Citric acid Excellent Excellent 1% Lactic acid Good Conc. Sulphuric acid Good Conc. Hydrochloric acid Conc. Phosphoric acid Good

ALKALIS

Sea water Excellent 25% Sodium Hydroxide Excellent **Sodium Carbonate** Excellent **Calcium Carbonate** Excellent Dilute Sodium Hydroxide Good Good Conc. Sodium Hydroxide **Ammonia salts** Good Dilute Ammonia Hydroxide Good Conc. Ammonia Hydroxide Good

SALT SOLUTIONS

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

Solvents

Petrol Excellent
Kerosene Excellent

FATS & OILS

Animal Excellent

Vegetable Excellent Mineral Good

Mixing paddles are available from **Speciality Engineering Chemicals** on request.

WATER

APPLICATION

Chlorinated water Excellent
Distilled water Excellent

Application

The mixed material should be applied by suitable brush.

The first coat should be applied to the substrate

Preparation

It is essential that adequate preparation is carried out prior to the application of **SpECcoat CRE200**.

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, curing compounds, grease and oil.

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

using a scrubbing action to ensure a uniform build of not less than 200µm. The first coat should be allowed to dry for at least 8 hours at 20°C or 4 hours at 35°C. The maximum quoted overcoat times should also be complied with (see above). The second coat must be applied exactly as above resulting in a film thickness of at least 200µm.

Should spray application be considered, contact our Technical Department.

Mixing

SpECcoat CRE200 is supplied in a two-component kit consisting of a base component and a curing agent.

EQUIPMENT CLEANING

Tools and equipment should be cleaned immediately using **SpECtop Cleaning Fluid**. Cured material can only be removed by mechanical means.



PACKAGING AND YIELD

SpECcoat CRE200 is supplied in the pack sizes given below with the following recommended coverage rates:

SpECcoat CRE200

4.5 litres and 15 litres

@ 200 μm wft: 5.0m²/litre/coat

(minimum 2 coats)

N.B. Due to wastage factors and the varied nature of substrates, actual coverage rates may be significantly reduced.

H SPEC B

The contents of the base component must be stirred thoroughly to disperse settlement. The total contents of the hardener component should be added to the base, taking care to scrape the sides

of the can. Mechanical mixing must be used incorporating a suitable mixing paddle attached to a heavy duty, slow speed drill.

APPLICATION TEMPERATURE RANGE

Minimum 5°C Maximum 35°C

At temperatures above this range the material should be stored in air-conditioned storage. At temperatures above 35°C the pot life of the product will be reduced.

STORAGE AND SHELF LIFE

SpECcoat CRE200 has a shelf life of 12 months when stored in original containers in a cool dry environment.

HEALTH AND SAFETY

SpECcoat CRE200 & **SpECtop Cleaning Fluid** should not come into contact with eyes or skin or ingested. When using **SpECtop Cleaning Fluid** ensure adequate ventilation and avoid inhalation of vapour. Wear adequate protective clothing including gloves and eye protection.

If contact with skin occurs, rinse with water then clean using soap and water.

If eye contact occurs, rinse with copious amounts of water and seek medical assistance.

If swallowed, DO NOT induce vomiting. Seek medical attention immediately.

FLAMMABILITY

SpECcoat CRE200 is non-flammable.

FLASH POINT

SpECtop Cleaning Fluid >150°C **SpECtop Cleaning Fluid** >40°C

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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.