





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 |
|-----------|
| Excellent |
| Good |
| Good |
| Good |
| |

ALKALIS

| Sea water | Excellent |
|--------------------------|-----------|
| 25% Sodium Hydroxide | Excellent |
| Sodium Carbonate | Excellent |
| Calcium Carbonate | Excellent |
| Dilute Sodium Hydroxide | Good |
| Conc. Sodium Hydroxide | Good |
| 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 |
| Sodium Sulphate | Excellent |
| 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

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 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.

APPLICATION

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**.

Mixing

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



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.

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.

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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