

CHEMfix 2250^{SW}

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

Description

CHEMfix 2250 is a two-part, 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. The product is supplied in two grades. The **2250 S** denoting standard and the **2250 W** denoting potable water grade.

TYPICAL USES

CHEMfix 2250 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

CHEMfix 2250 complies with BS 6920: Part 1 as a coating suitable for contact with potable water

TECHNICAL INFORMATION

Typical values @ 20°C

Solids content	: 100%
Gel time (minutes)	: 80 - 120
Over coating times (hrs)	: 8 - 20
Full cure	: 7 days
Typical system thickness	: 400µm

APPLICATION

Preparation

It is essential that adequate preparation is carried out prior to the application of **CHEMfix 2250**.

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 **CHEMfix 900**.

CHEMICAL RESISTANCE CHART

ACIDS		SALT SOLUTIONS	
10% Sulphuric acid	Excellent	Potassium/Aluminium Sulphate	Excellent
Hydrochloric acid	Excellent	Ferrous Sulphate	Excellent
10% Phosphoric Acid	Excellent	Calcium Chloride	Excellent
10% Hydrofluoric acid	Excellent	Sodium Phosphate	Excellent
Citric acid	Excellent	Copper Phosphate	Excellent
1% Lactic acid	Excellent	Sodium Sulphate	Excellent
Conc. Sulphuric acid	Good	Sodium Chloride	Good
Conc. Hydrochloric acid	Good	Sodium Acetate	Good
Conc. Phosphoric acid	Good		
ALKALIS		Solvents	
Sea water	Excellent	Petrol	Excellent
25% Sodium Hydroxide	Excellent	Kerosene	Excellent
Sodium Carbonate	Excellent		
Calcium Carbonate	Excellent	FATS & OILS	
Dilute Sodium Hydroxide	Good	Animal	Excellent
Conc. Sodium Hydroxide	Good	Vegetable	Excellent
Ammonia salts	Good	Mineral	Good
Dilute Ammonia Hydroxide	Good		
Conc. Ammonia Hydroxide	Good	WATER	
		Chlorinated water	Excellent
		Distilled water	Excellent

Mixing

CHEMfix 2250 is supplied in a two-component kit consisting of a base component and a curing agent. 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. Mechanical mixing must be used incorporating a suitable mixing paddle attached to a heavy duty, slow speed drill.

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.

EQUIPMENT CLEANING

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

PACKAGING AND YIELD

CHEMfix 2250 is supplied in the pack sizes given below with the following recommended coverage rates:

CHEMfix 2250

4.5 Kg and 15 Kg

@ 200 µm wft: 3.5m²/Kg/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

CHEMfix 2250 has a shelf life of 12 months when stored in original containers in a cool dry environment.

HEALTH AND SAFETY

CHEMfix 2250 & CHEMfix Cleaning Fluid should not come into contact with eyes or skin or ingested. When using CHEMfix Cleaning Fluid ensure adequate ventilation and avoid inhalation of vapor. 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

CHEMfix 2250 is non-flammable.

FLASH POINT

CHEMfix 2250 >150°C Sp



The information and recommendations above are given in good faith based on our current knowledge and experience of the products when properly stored, handled and applied in accordance with current best practice, national standards and our recommendations. As we have no control over site conditions or methods of application, no liability can be derived from the contents of this information sheet, or from any written recommendations, or from any other advice offered. The user of the product is solely responsible for the product's suitability for the intended application and is recommended to test the suitability prior to use. We reserve the right to change the properties of our products without notice. All orders are sold subject to our current terms of sale and delivery. With the publication of this Technical Information Sheet all previous editions are no longer valid.

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