



## DESCRIPTION

Chemguard 1400 is a solvent free, non-toxic; high build epoxy resin protective coating with outstanding chemical and mechanical properties. Chemguard 1400 has an excellent resistance to mould and fungus growth.

## RECOMMENDED USE

Chemguard 1400 is designed for internal applications such as:

- Heavy duty protective coating for concrete and steel.
- Internal protective lining for potable water concrete or steel tanks.
- Heavy duty wall and floor coating in food processing plants, grain silos, dairies, breweries, and hospitals
- High chemical resistant protective coating for power stations, oil refineries, and sewage treatment plants.

## SURFACE PREPARATION

### Steel

Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating

For mild environments, prepare by hand or power tools in accordance with SSPC-SP2 or 3.

For non-immersion service, abrasive blast to a Commercial Finish in accordance with SSPC-SP6 with a 25-50micron profile.

For immersion service, abrasive blast to a Near White Metal Finish in accordance with SSPC-SP10 with a 25-50 micron surface profile.

### Concrete

Remove all oil, grease, dirt or contaminates from the surface.

All contaminated or damaged concrete must be removed down to a clean, structurally sound concrete substrate.

Concrete must be cured at least 28 days at 21°C and 50% RH or equivalent time. Remove fins and other protrusions by stoning, sanding or grinding. Abrasive blast to open all surface voids and remove all form oils, incompatible curing agents, hardeners, laitance and other foreign matter and produce a surface texture similar to that of medium grit sandpaper. Voids in the concrete may require surfacing. Blow or vacuum off sand and dust.

## MIXING

Stir the content of each component separately to disperse any settlement. Add the entire content of the hardener to the base and mix for 3 minutes and until uniform color and consistency are achieved.

Mix the base and the hardener using an electrical Powered mixer to achieve a homogeneous uniformed color, DO NOT MIX PARTIAL KITS.

## THINNING

Not Recommended

## APPLICATION

Apply by brush, roller or airless spray. Use a medium bristle brush or short-nap synthetic roller cover with phenolic core. The first coat should be applied to obtain a continuous uniform coating. The second coat should be applied within the over coating time to achieve the maximum adhesion between the two coats. Consult Unichem Technical Support Department for spray equipment instructions.

## TECHNICAL INFORMATION

Specific gravity:	1.60±0.1
Solid content:	100%
Color:	Variable
Abrasion resistance:	Excellent

Bond strength: ASTM D4541-85	>2N/mm <sup>2</sup>
Pot life:	60 minutes @ 25°C 30 minutes @ 35°C
Re-coatable time:	5 - 16 hours @ 25°C
Full cure:	After 7 days @ 25°C
Compressive strength: to BS6319, Part 2:1983	≥ 75 N/mm <sup>2</sup>
Tensile strength: to ASTM D638-98	≥ 15 MPa @ 14 Days

### APPLICATION CONDITIONS

Temperature	10 - 43°C
Humidity	<80 %RH

### THEORETICAL COVERAGE

The coverage rate is around 4m<sup>2</sup>/L at 200μ thickness

### SHELF LIFE

12 months when stored properly in unopened container in dry conditions at 10 - 25°C.

### CLEANUP

Tools and equipment can be cleaned by Thinner #2.

### PACKAGING

Chemguard EP1400 is available in 3Liters Kit

### PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Use with adequate ventilation and use a respirator when levels are above applicable limits. Avoid contact with skin and eyes. Close container after each use. Use good hygiene when handling this product.

### TECHNICAL SUPPORT

Technical assistance is available from the manufacturers trained field representatives.

### UPDATED

March 2013

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Protective Coatings . Linings . Fire Proofing . Floorings . Construction Chemicals & Decorative Paints

### Unichem Product Group

Unichem offers a wide range of industrial coatings, fireproofing and construction chemicals products that are manufactured, which include:

- Intumescent coatings
- Fire retardants
- Industrial floorings.
- Steel and industrial coatings
- Waterproofing.
- Grouts and anchoring
- Concrete repairs.
- Structural protection.