



**DESCRIPTION**

Chemguard CT1775 is a High performance coal tar epoxy Coating for use in the aggressive environments for the protection of steel and concrete. which can be applied at high film thickness in one coat. Designed for use on steel or concrete surfaces in severe industrial environments.

**RECOMMENDED USE**

For use over prepared steel and concrete in industrial exposures such as:

- Petroleum storage tanks
- Dam gates
- Offshore drilling rigs
- Penstocks
- Liner for clarifiers
- Non-potable water tank and pipe coating
- Marine applications
- Heavy duty structural coating

**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 non-immersion service, abrasive blast to a Commercial Finish in accordance with SSPC-SP6 with a 50- 75micron profile.

For immersion service, abrasive blast to a Near White Metal Finish in accordance with SSPC-SP10 with a 50- 75micron 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**

Power mix separately, and then combine Part A and Part B and power mix to achieve homogeneous appearance. PARTIAL MIX NOT RECOMMENDED.

**THINNING**

Up to 10% with Chemguard Thinner# 10  
Up to 20% with Chemguard Thinner#10 for the first coat application to concrete.

Use of thinners other than those supplied or recommended by Unichem may adversely affect product performance and void product warranty, expressed or implied.

**APPLICATION**

Apply by brush, roller or airless spray. Use a medium bristle brush or short- nap synthetic roller cover with phenolic core. Consult Unichem Technical Support Department for spray equipment instructions.

**DRYING TIME AT 25°C**

Pot Life	9 hours
To Touch	9-10 hours
To Topcoat	22-24 hours
Full Cure	7 days at 24°C and 50% RH

**TECHNICAL INFORMATION**

Color	Black
Finish	Semi Gloss
% Solids (by volume)	85% ± 3%
Dry Film Thickness	200 µ
Flash point ASTM D 3828:2007 method B	60°C
Sag resistance ASTM D 4400:1999	200 µm

Hardness by pencil test (5B,5H) ASTM D 3363:2000	Pass
Scrub Resistance (thickness 175µm) ASTM D 2486:2000	> 1600 Cycle
Abrasion Resistance (Taber Abraser) weight loss after abra- sion using wheel CS-10 and 1000 round ASTM D 4060:2001	0.04 Gram
Chemical Resistance (24 hours Exposure) ISO 2812-4:2007	
a-White Spirit	Pass
b-10% NaCl Solution	Pass
c-Tap Water	Pass
d-15% Ammonia Solution	Pass
e-Engine Oil	Pass

### APPLICATION CONDITIONS

Min. Temperature	10°C
Max. Temperature	43°C
Relative Humidity	90%

### THEORETICAL COVERAGE

The coverage rate is around 3.4m<sup>2</sup>/L at 200µ thickness Per Coat.

### SHELF LIFE

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

### CLEANUP

Tools and equipment can be cleaned with Chem-guard Thinner No. #2. Dried Chemguard CT1775 should be removed mechanically.

### PACKAGING

Chemguard CT1775 is available in 18 Liter Kit .

### PRECAUTIONS

Contains aromatic hydrocarbons solvent. 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

### 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.