



## DESCRIPTION

An amine-cured phenolic epoxy with exceptional chemical resistance for use as a tank lining, flooring or coating for the protection of steel and concrete surfaces.

## RECOMMENDED USE

Chemguard PH1790 is widely used as a tank/pipe lining system for a wide variety of chemicals, most notably in the petrochemical industry. It is also widely used as a flooring or secondary containment system because of its resistance to a wide range of chemicals.

## SURFACE PREPARATION

### Steel

Remove all oil or grease from the surface to be coated with Unichem Cleaning Thinner in accordance with SSPC-SP1.

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

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

### Concrete

Remove all oil, grease, dirt or contaminants 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. DO NOT MIX PARTIAL KITS.

## THINNING

Spray: Up to 25% with Thinner #2

Brush and Roller: Up to 20% with Thinner #33

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 spray. Natural bristle brushes are preferred. Short-nap synthetic roller cover with phenolic core gives the best results for wide areas. Consult Unichem Technical Support Department for spray equipment instructions.

## DRYING TIME

Pot Life	4 hours
Touch dry	4 hours
To Topcoat	24 hours
Full Cure	15 days
Recoat Window	30 days
* at 24°C and 50% RH	

## TECHNICAL INFORMATION

Color	Grey
Sheen	Satin
Volume Solids	65 ± 2%
Mixed Density	1.32
Mixing Ratio by Volume	4:1
Topcoats	Epoxies, polyurethanes and others as specified
Dry Film Thickness	100-150µ

## APPLICATION CONDITIONS

Min. Temperature	10°C
Max. Temperature	38°C
Relative Humidity	85%



## THEORETICAL COVERAGE

The coverage rate is around 5.20 m<sup>2</sup>/L at 125μ 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 with thinner No.2.

## PACKAGING

Chemguard PH1790 is available in 3.8 liter gallon (A+B) or 19 Liter pail (A+B) .

## PRECAUTIONS

Follow instructions on this sheet, the MSDS and the container .

## TECHNICAL SUPPORT

Technical assistance is available from the manufacturers trained field representatives.

## UPDATED

November 2016

### 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.

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