



## DESCRIPTION

Chemguard PU3400 is a High-build aliphatic polyurethane topcoat that has excellent resistance to corrosion, chemicals and abrasion.

Suitable for application over a number of Unichem primers and intermediates. Chemguard PU3400 provides very good weathering performance in a broad range of colors .

## RECOMMENDED USE

Chemguard PU3400 recommended industrial environments such as: Structural steel, Tank exteriors, Rail cars and locomotives, Pipelines, Conveyors, Ships, Bridges. Chemguard PU3400 is an excellent topcoat for external aggressive environments such as petrochemical, oil and gas, marine, GRP, and power industries.

## SURFACE PREPARATION

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

Chemguard PU3400 must be applied on previously primed steel.

## MIXING

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

## THINNING

Spray: Up to 10% with Thinner #25

Brush and Roller: Up to 15% with Thinner #25

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.

## TECHNICAL INFORMATION

Color	Variable
% Solids (by volume)	51% ± 2
Topcoats	Not Required
Dry Film Thickness	75-125 µ
Flash point ASTM D 3828:2007 method B	31°C
Drying time ASTM D 5895:2003	2 -3hours
Over coating time ASTM D 5895:2004	6-7 hours
Full Cure	7 days at 25°C and 50% RH
Sag resistance ASTM D 4400:1999	200 µm
Abrasion Resistance (Taber Abraser) weight loss after abrasion using wheel CS-10 and 1000 round ASTM D 4060:2001	0.12 Gram
Hardness by pencil test (5B0,5H) ASTM D 3363:2000	Pass
Scrub Resistance(Film thickness =175µm) ASTM D 2486:2000	> 1600 Cycle
Impact Resistance ISO 6272-1:2011	Pass

## APPLICATION CONDITIONS

Min. Temperature	4°C
Max. Temperature	43°C
Relative Humidity	90%

**THEORETICAL COVERAGE**

The coverage rate is around 5.1 m<sup>2</sup>/L at 100μ 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 Chem-guard Thinner No. #2. Dried Chemguard PU3400 should be removed mechanically.

**PACKAGING**

Chemguard PU3400 is available in 3.6Liter or 19 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**

April 2015

**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.