

**CMP CHEMGUARD 800****Product description:**

CMP CHEMGUARD 800 is a Phenolic Epoxy based tankcoating.

It provides excellent physical properties such as adhesion, toughness, abrasion resistance, etc. as well as chemical resistance to salt-water, fresh water, petroleum products, crude oil, alkalis and weak acids.

It is suitable as a protective coating for tank interiors.

**Typical use:**

Product carrier tank, Crude oil tank, Chemical tank, etc.

**Physical Data: (Mixed product)**

Number of components:	Two Pack Product	
Colours:	Grey	
Gloss:	Semi-gloss	
Volume solids %:	65 ±2	(ISO : 3233 (1998))
Theoretical spreading rate:	8,7m <sup>2</sup> /l	
Flash point:	25°C (Mix)	
Specific gravity:	1,33 Kg/l	
Dry to touch:	1.5 hours at 20 °C	
Hard dry:	12 hours at 20 °C	
VOC (Theoretical):	359 g/l	

**Recommended substrate conditions:**

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2019.

**Abrasive Blast Cleaning**

Abrasive blast clean to Sa2½ (ISO 8501-1:2007). If oxidation has occurred between blasting and application of CMP CHEMGUARD 800, the surface should be reblasted to the specified visual standard.

Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.

A surface profile of Rz5 75-125 microns is recommended.

**Primed Surfaces**

The primer surface should be dry and free from all contamination and CMP CHEMGUARD 800 must be applied within the overcoating intervals specified (consult the relevant product data sheet). Areas of breakdown, damage etc., should be prepared to the specified standard and patch primed prior to the application of CMP CHEMGUARD 800.

**Mixing**

Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Once the unit has been mixed it must be used within the working pot life specified.

(1) Agitate Base (Part A) with a power agitator.

(2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.

**Application conditions**

Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. Use only where application and curing can proceed at temperatures above: 10°C. The temperature of the paint itself should be: 15-25°C. In confined spaces provide adequate ventilation during application and drying. It is important that the surface is completely clean to ensure the adhesion. Any oil, grease, etc. to be removed by suitable detergent.

For plural component airless spray application, best results will be achieved when the product is heated prior to application; Part A (Resin) to a maximum of 50°C and Part B (Hardener) to a maximum of 40°C. For airless spray application, best results will be achieved when each component of the product is heated prior to application to 35-37°C.

**Application data:**

<b>Version, mixed products</b>	CMP CHEMGUARD 800
Recommended Thinner:	CMP EP THINNER
Mixing ratio:	Base: Curing agent: 481EE 481EE000 84 : 16 (by volume) 88 : 12 (by weight)
Application method:	Airless spray, brush, roller*
Recommended thinner volume:	0 - 10% (by volume)
Nozzle orifice:	GRACO 619, 621
Nozzle pressure:	14.7 - 17.7 MPa
Indicated film thickness, wet:	Min: 116µm
Indicated film thickness, dry:	Min: 75µm
Min. Temperature:	10 °C
Pot life:	5 hours @ 20 °C
Surface temperature:	Dew point + min.5 °C on steel, Dew point
Humidity:	Maximum 85% R.H.
Overcoat interval, min:	See ADDITIONAL APPLICATION DATA
Overcoat interval, max:	See ADDITIONAL APPLICATION DATA

Add the Curing agent to the base whilst mixing. Stir well before use.

Notes: \* In case of brush or roller application more layers may be required to achieve the specified film thickness. When painting edges and welds, stripe coating is recommended. In confined spaces such as tank interiors, ventilation is required during curing to remove solvent vapours to promote curing.

**Additional application data:**

Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. Use only where application and curing can proceed at temperatures above: 10°C. The temperature of the paint itself should be: 15-25°C. In confined spaces provide adequate ventilation during application and drying. It is important that the surface is completely clean to ensure the adhesion. Any oil, grease, etc. to be removed by suitable detergent.

**Overcoating:**

Overcoating intervals related to later conditions of exposure: If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion. Before overcoating after exposure in contaminated environment, clean the surface thoroughly with high pressure fresh water hosing and allow drying. A completely clean surface is mandatory to ensure intercoat adhesion, especially at long overcoating intervals. Any dirt, oil, grease, and other foreign matter must be removed with suitable detergent followed by (high pressure) fresh water cleaning. Salts to be removed by fresh water hosing. Any degraded surface layer, as a result of a long exposure period, must be removed. Water jetting may be relevant to remove any degraded surface layer and may also replace the above mentioned cleaning methods when properly executed. Consult Chugoku Paints B.V. for specific advice if in doubt. To check whether the quality of the surface cleaning is adequate, a test patch may be relevant. However, this test patch should not be a final proof of the durability of the coating systems.

**Curing time and over-coating data:**

Temp.	Surface dry (at 75µ DFT)	Hard dry (at 75µ DFT)	Fully cured (at 75µ DFT)	Over-coating Interval Min.	Over-coating Interval Max.	Pot life
-5 °C	-	-	-	-	-	-
0 °C	-	-	-	-	-	-
5 °C	-	-	-	-	-	-
10 °C	2.5 hours	24 hours	-	24 hours	28 days	7 hours
20 °C	1.5 hours	12 hours	-	16 hours	21 days	5 hours
30 °C	30 min	6 hours	-	14 hours	14 days	3 hours

The coated surface should not be exposed to sunlight from manhole and other holes by using sun-net, etc. If the coated surface is sweated or flooded by water, the surface should be roughened even if within coating interval.

**Spreading rates:**

Dry Film Thickness	Theoretical Spreading rate
75 µm	8,7 m <sup>2</sup> /l
100 µm	6,5 m <sup>2</sup> /l
125 µm	5,2 m <sup>2</sup> /l

**Storage:**

Min. 24 months at 20°C. Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition. Elevated storage temperatures reduce shelf life.

**Color variation:**

When applicable, products may have slight color variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering.

Color and gloss retention on topcoats/finish coats may vary depending on type of color, exposure environment such as temperature, UV intensity etc., and application quality.

For certain colours extra coats may be necessary to obtain full opacity.

Contact your local Chugoku Paints B.V. office for further information.

**Safety information:**

If Health, Safety and Environmental information is required a Health and Safety Data Sheet can be obtained from Chugoku Paints B.V.

Personal Protection advice and additional information can be obtained from the product Health and Safety Data Sheet which is available on request. The minimum safety precautions in dealing with this paint are:

- Observe the precautionary notices displayed on the container.
- Provide adequate ventilation.
- Avoid skin contact and inhalation of spray mist and vapours.
- If the product comes into contact with the skin, wash thoroughly with luke warm water and soap or suitable cleaner. If the eyes are contaminated, irrigate with water and seek medical advice immediately.
- Since the product contains flammable materials, keep away from sparks and open flames. No smoking should be permitted in the area.

**Definitions:**

Tolerances:	The numerical information quoted in this Technical Data Sheet is subject to normal manufacturing tolerances.
Spreading Rate:	The spreading rate can vary depending on application conditions, the geometrical complexity of the structure, the weather conditions, etc.
Volume Solids:	The volume solids figure given in this Technical Data Sheet is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions measured by the Chugoku Standard Method corresponding to ASTM method D2697 if not otherwise indicated.
Overcoating Intervals:	The intervals given assume preparation consistent with good painting
Hard dry:	The time taken until the product can be walked on without damaging it. Time taken until full mechanical strength is obtained is longer.
V.O.C.:	Theoretical quantity of volatile organic compounds in g/l.

**Disclaimer:**

Data, specifications, directions and recommendations given in this data sheet represent test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use is not guaranteed and must be determined by user. Product data is subject to change without notice and automatically void two years from issue. All legal relations of Chugoku Paints B.V. will be governed by the Uniform Terms of Sale and Delivery of Chugoku Paints B.V. as last filed with the district court of Rotterdam and upon request they will be made available without charge. Chugoku Paints B.V. explicitly rejects the applicability of any General Conditions, which its contractual parties may use. Exclusive jurisdiction: competent Court in Rotterdam.

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