CHUGOKU PAINTS B.V.

CMP CHEMGUARD 800 GF

Product description:

A two component glass flake reinforced epoxy phenolic coating. It is heat resistant up to 230 °C. Can be used as primer, mid coat or finish coat in atmospheric environments and tank coatings. Which combines properties of corrosion and chemical resistance when used in high temperature service. Suitable for properly prepared carbon steel, galvanized steel, stainless steel and aluminium substrates. Suitable for temperatures ranging from cryogenic, i.e. -60°C to 230 °C. It will offer proper corrosion protection at ambient conditions during construction and shut-down periods.

Typical use:

Designed as corrosion protection for surfaces operating at elevated temperatures where extended protection against corrosion is desired.

Certificates / approvals:

Additional certificates and approvals may be available on request.

Physical Data: (Mixed product)

Number of components:	Two Pack Product
Colours:	Red Brown, Light Grey
Gloss:	Semi-gloss
Volume solids %:	58 ±2
Theoretical spreading rate:	5,8m²/l
Flash point:	18°C (Mix)
Specific gravity:	1.41 kg/l - 1.42 kg/l (depends on colour)
Dry to touch:	1.5 hours at 20 °C
Hard dry:	12 hours at 20 °C
VOC (Theoretical):	355 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 Epicon T-800 HS-GF, 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 40-75 microns is recommended.

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.

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Application data:

Version, mixed products	CMP CHEMGUARD 800 GF
Recommended Thinner:	CMP EP THINNER (for cleaning only)
Mixing ratio:	Base: Curing agent: 579EE 579EE0000 86 : 14 (by volume) 90 : 10 (by weight)
Application method:	Airless spray, brush*, roller
Recommended thinner volume:	0 - 10% (by volume)
Nozzle orifice:	Graco 631 - 635
Nozzle pressure:	14.7 - 17.7 MPa
Indicated film thickness, wet:	Min: 173µm
Indicated film thickness, dry:	Min: 100µm
Min.Temperature:	5ºC, recommended 10 °C
Pot life:	5 hours @ 20 °C
Surface temperature:	Dew point + minimum 3°C
Humidity:	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 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. This may necessitate application of the product in reduced film thickness, down to: 50 micron/2 mils. For such purpose, addition of a thinner is recommended: CMP EP THINNER -> 5-10%.

Curing time and over-coating data:

Temp.	Surface dry (at 125µ DFT)	Hard dry (at 125µ DFT)	Fully cured (at 125µ DFT)	Over-coating Interval Min.	Over-coating Interval Max.	Pot life
-5 °C	-	-	-	-	-	-
0 °C	-	-	-	-	-	-
5 °C	**5 hours**	**40 hous**	-	**40 hours**	**7 days**	**10 hours**
10 °C	**2.5 hours**	**24 hours**	-	**24 hours**	**7 days**	**7 hours**
20 °C	**1.5 hours**	**12 hours**	-	**16 hours**	**5 days**	**5 hours**
30 °C	**0.5 hour**	**6 hours**	-	**14 hours**	**4 days**	**3 hours**

Note: Drying times and overcoating intervals will increase with increasing film thickness applied.
Before re-coating always check that the existing film is 'through' dry.

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Spreading rates:

Dry Film Thickness	Theoretical Spreading rate
100 µm	5,8 m²/l
125 µm	4,6 m²/l
150 µm	3,9 m²/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. 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:

a. Observe the precautionary notices displayed on the container.
b. Provide adequate ventilation.
c. Avoid skin contact and inhalation of spray mist and vapours.
d. 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.
e. 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.