BERGER® PAINTS

BERGER APCOTHERM 800 CUI

Heat Resisting Finish (850°C)

PRODUCT SPECIFICATIONS

Product Description

A Single component, heat resistant finish specially designed with inorganic copolymer with MIO and other heat resisting pigments for protection of CS & SS surfaces. This high-performance surface tolerant coating forms multi-polymer matrix after curing which resist temperature range between -196 to 850 °C.

Design Feature

- It gives excellent protection against corrosion on buried high temperature vessels & underground pipelines.
- 850 °C dry operational continuous temperature resistance for stainless steel surface.
- 750 °C dry operational continuous temperature resistance for carbon steel surfaces.
- 250 µm DFT high build single coat DTM application over a zinc silicate primer for C5/CX exposures.
- 200 °C, Suitable for hot steel surface application during shutdown & maintenance.
- -196 °C, suitable for thermal shock/rapid cycling in dry or dry/wet service temperature.
- Protect stainless steel from chloride attack by forming a protective barrier.
- Outstanding weathering & UV resistance and durability along with good chemical resistance.
- Confirms to NACE SPO198-2017 systems SS-5,CS-6and CS-8
- Tested and evaluated to NACE TM0174 and ISO12944-6.
- Tested and evaluated for suitability to CUI resistance as per Houston pipe test.

Physical Characteristics

Recommended Application Data	Wet [µm]	Dry [µm]	m²/l
Theoretical Coverage	165	125	6

Volume Solids	:	75% (based on ASTM D2697)
Dry Film Thickness Range	:	100 µm to 250 µm
Flash Point	:	27 °C
VOC	:	345 ± 10 gm/lit (depending on shades)
Finish	:	Semi-Gloss
Colour Range	:	Black Grey
Standard Packing Size	:	5 litres

Application

AIRLESS SPRAY : Tip Size : 0.38 mm (15 thou)
Pressure : 110 – 130 atm (1400 – 1800 psi)

Do not overapply. Over-application will slow down drying and handling times.

BRUSH OR ROLLER : May be used. However, the finished aesthetic appearance of the coating will not be as brilliant and attractive as when it is spray applied.

CONVENTIONAL AIR SPRAY : May be used.

Drying Time

Substrate Temperature	Touch Dry	Hard Dry
15 °C	70 mins	6 hours
25 °C	50 mins	5.5 hours
35 °C	35 mins	5 hours

Useful Information

THINNER	:	SOLVALUX 7-800 (Maximum 10% addition)
STORAGE	:	Store in a cool dry shaded area.
SHELF LIFE AT 30 °C	:	12 months when stored as prescribed in the MSDS.

BERGER®
PAINTS

BERGER APCOTHERM 800 CUI

Heat Resisting Finish (850°C)

Surface Preparation

The service life span and the service performance of Berger Apcotherm 800 CUI is directly related to the degree of surface preparation.

STEEL

- Berger Apcotherm 800 CUI should be applied to a surface that has been blast cleaned. It may be applied directly to blast cleaned steel or over a suitable primer e.g. Zincanode 330.
- Remove all wax, oil and grease by solvent cleaning in accordance with the guidelines given by SSPC-SP1. Where necessaries remove weld spatter and round off all rough weld seams and sharp edges to a smooth surface.
- Abrasive blast clean to a minimum standard of Sa2½ (ISO 8501-1:1988) or SSPC-SP10. An average surface profile of 50 – 75 microns is required.
- Ensure that all surface defects detected after blast cleaning is ground, filled or treated in a suitable manner.
- After blasting, remove dust from the surface. Ensure that the surface to be coated is clean, dry and free from any contaminants.
- Apply Berger Apcotherm 800 CUI immediately after blasting to prevent oxidation and recontamination of the steel surface. The use of a dehumidification system and / or the use of a suitable blast/holding primer such as Epilux 610, is recommended to prevent oxidation of the blasted steel surface. In case of oxidation/recontamination, re-blast to the required standard.

To avoid condensation of moisture onto substrate prior to coating application, relative humidity should not exceed 85% and substrate temperature should be more than 3°C above Dew Point.

Recomended Use

Hot Piping, Process vessels, Heat Exchangers, Boiler Casing, Refinery Heaters, Crackers & Reactors, Furnaces and Other exposed insulated or buried high temperatures equipment's.

Notes

- The coating specifications given above are typical. For specific recommendations to suit individual applications, please refer to your Berger Paints representative.
- This product is not suitable in use in immersed conditions.
- Do not apply this product directly onto Zinc primer, Galvanised substrate without a suitable tie-coat.
- Do not exceed the recommended film thickness to avoid blistering during service.

Safety Precaution

- Avoid contact with eyes and skin. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use barrier cream.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe in vapour or spray mist.
- This product is flammable. Keep away from sources of ignition. Do not smoke.
- Take precautionary measures against static discharge.
- In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.

First Aid

Eyes	:	In the event of accidental splashes, flush eyes with warm water immediately and seek medical advice.
Skin	:	Wash skin thoroughly with soap and water or approved industrial cleaner. Do Not Use solvents or thinners.
Inhalation	:	Remove to fresh air, loosen collar and keep patient rested.
Ingestion	:	In case of accidental ingestion, DO NOT INDUCE VOMITING. Obtain immediate medical attention.

For further safety information, please refer to our **Material Safety Data Sheet (MSDS)**

R1-072025

Berger Paints Singapore Pte Ltd
berger@bergerpaints.com.sg

Berger International Sdn Bhd
sales@bergerinternational.com.my

PT Berger Paints Indonesia
weassure.id@bergerpaints.co.id

An OMEGA Group Company
Singapore | Australia | New Zealand | Malaysia | Indonesia | Brunei | USA