

**APCOTHERM EPN 200**

Epoxy Phenolic Coating

**PRODUCT  
DESCRIPTION**

Two component, high solids, high build, chemical and corrosion resistant solvent based epoxy phenolic coating used in high temperature service.

**DESIGNED USE**

- Recommended as corrosion resistant barrier coat to protect steelwork under thermal insulation subjected to wet or dry thermal cycles.
- Self priming, excellent adhesion on blast cleaned steel.
- Suitable for exposure to a wide range of corrosive environments and exterior of insulated or un-insulated steel pipeline, process equipments, vessels, etc., operating continuously upto 200°C and intermittently at 250°C
- Excellent resistance to "Thermal Shock" experienced during rapid heating and cooling conditions.
- Suitable as topcoat for upto C5 Environment as per ISO12944 Part 2

**PHYSICAL DATA**

<b>VOLUME SOLIDS</b> (Based on ASTM D2697)	70 % $\pm$ 2 %
<b>TYPICAL DRY FILM THICKNESS</b>	100 microns
<b>WET FILM THICKNESS</b>	143 microns
<b>THEORETICAL COVERAGE</b>	7 m <sup>2</sup> /liter @ 100 microns DFT
<b>VOC "As Supplied"</b> (Based on ASTM D3960)	270 gms/liter
<b>COLOUR</b>	Redoxide (Limited shades)
<b>FINISH</b>	Matt

**APPLICATION  
DETAILS****METHOD OF APPLICATION :****AIRLESS SPRAY**

This is the recommended method of application:  
Maximum 5% Thinner may be added.  
Tip Size: 0.53 - 0.58 mm (0.021 - 0.023 in)  
Pressure: 110 - 160 kg/cm<sup>2</sup> (1600 – 2300 psi)

**BRUSH OR ROLLER**

May be used for difficult shapes or touch-up.  
However, additional coats may be required to achieve the recommended film thickness.

**DRYING TIME:**

Surface Temperature	Touch Dry	Hard Dry	Over coating Interval		Pot Life
			Minimum	Maximum	
25°C	7 Hrs	16 Hrs	12 Hrs	21 Days	3 hrs at 30°C
35°C	4 Hrs	12 Hrs	10 Hrs	14 Days	
45°C	2Hr	6 Hrs	6 Hrs	14 Days	

**NO. OF COMPONENTS** Two**Mixing Ratio** 4 parts base and 1 part Hardener by volume**Application Conditions** Do not apply this product if the Relative Humidity exceeds 85% or if the substrate temperature is within 3°C of the dew point**ADDITIONAL  
INFORMATION**

Thinner / Cleaning solvent	Solvalux 7-45
Storage Instruction	Store in a cool dry shaded area
Flash Point	Mixed 30°C
Packaging	5 liters & 20 liters
Shelf Life	12 months from the date of manufacture.

**APCOTHERM EPN 200****Epoxy Phenolic Coating****SURFACE  
PREPARATION**

The service life span and the service performance of Apcotherm EPN 200 is directly related to the degree of surface preparation.

**STEEL**

- Apcotherm EPN 200 should be applied to a surface that has been blast cleaned. Should be applied directly to blast cleaned steel or over a suitable primer approved for heat resistant properties.
- Remove all wax, oil and grease by solvent cleaning in accordance with the guidelines given by SSPC-SP1. Where necessary 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 Sa 2½ Swedish Standard SIS 05 59 00 or ISO 8501-1 : 1988 or SSPC-SP10. An average surface profile of 50 – 75microns 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 Apcotherm EPN 200 immediately after blasting to prevent oxidation and recontamination of the steel surface. The use of a dehumidification system is recommended to prevent oxidation of the blasted steel surface. In case of oxidation/ recontamination, re-blast to the required standard.

**TYPICAL COATING  
SYSTEMS**

Substrate Surface	Priming	2 <sup>nd</sup> Coat
Steel, Abrasive Blasted – Sa 2½	Apcotherm EPN 200 -125µ	
Steel, Abrasive Blasted – Sa 2½	Apcotherm EPN 200-125µ	Apcotherm EPN 200-125µ

**PRODUCT USE  
RESTRICTIONS**

- The coating specifications given above are typical. For specific recommendations to suit individual applications, please refer to your Berger Paints representative
- Please consult your Berger Paint representative for recommendations on suitability for the containment of specific cargo/ cargoes.
- Common to all epoxies this product will experience chalking or discolouration on prolonged exposure to sunlight. However, this phenomenon is not detrimental to coating performance.
- Exposure to very low temperatures, high humidity or water ponding during and/ or immediately after application may result in incomplete cure and/ or discolorations that may compromise subsequent inter coat adhesion.
- May also be applied between 100 and 150 microns DFT.
- Contact Berger Representative for suggesting suitable paint system

**SAFETY  
PRECAUTIONS**

- Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust masks and gloves. Use a barrier cream.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapor or spray.
- 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
- Refer to MSDS for further information.

**FIRST AID**

- Eyes: In the event of accidental splashes, flush eyes with water immediately and obtain medical advice
- Skin: Wash skin thoroughly with soap and water or approved industrial cleaner.
- DO NOT USE solvent 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

**DISCLAIMER**

The information provided on this data sheet is not intended to be complete and is provided as general advice only. It is the responsibility of the user to ensure that the product is suitable for the purpose for which he wishes to use it. As we have no control over the treatment of the product, the standard of surface preparation of the substrate, or other factors affecting the use of this product, we are not responsible for its performance nor would we accept any liability whatsoever or howsoever arising from the use of this product unless specifically agreed to in writing by us. The information contained in this data sheet may be modified by us from time to time, and without notice, in the light of our experience and continuous product development.