



## BERGER APCOTHERM EPN 200

High Build Epoxy Phenolic (200°C)

### PRODUCT DESCRIPTION

A two component, self-priming heat resisting Epoxy Phenolic paint developed for excellent chemical and corrosion resistance when used in high temperature service.

### DESIGN FEATURES

Recommended as a corrosion resistant barrier to protect for steelwork under thermal insulation subject to wet and dry cycles  
 Self-priming with 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

### PHYSICAL CHARACTERISTICS

	Recommended Application Data		
	Wet [ $\mu\text{m}$ ]	Dry [ $\mu\text{m}$ ]	$\text{m}^2/\text{l}$
Theoretical Coverage	143	100	7
Volume solids	70% (based on ASTM D2697)		
Dry Film Thickness Range	100 $\mu\text{m}$ to 125 $\mu\text{m}$		
Flash Point	29 °C		
Finish	Matt		
Colour Range	Red Oxide		
Standard Packing Size	5 Litres set (Base : 4 Ltrs & Hardener : 1 Ltr) 20 Litres set (Base : 16 Ltrs & Hardener : 4 Ltrs)		

### APPLICATION METHOD

AIRLESS SPRAY	Tip Size : 0.43–0.53 mm (17 – 21 thou)  Pressure : 110–150 $\text{kg}/\text{cm}^2$ (1600 – 2100 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	Overcoating Interval	
			Minimum	Maximum
15 °C	12 hours	24 hours	24 hours	7 days
25 °C	8 hours	16 hours	16 hours	5 days
35 °C	5 hours	12 hours	12 hours	3 days

### USEFUL INFORMATION

THINNER : SOLVALUX 7-45 (Maximum 10% addition)  
 CLEANER : SOLVALUX 7-77  
 STORAGE : Store in a cool dry shaded area.  
 SHELF LIFE AT 25 °C : 24 months when stored as prescribed in the MSDS.



# BERGER PRODUCT SPECIFICATIONS

## SURFACE PREPARATION

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

### STEEL

- Berger Apcotherm EPN 200 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. EPILUX 610.
- 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 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 EPN 200 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.

<b>SUITABLE PRIMERS</b>	Epilux 610
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## 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)**

## 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.*