

## PRODUCT SPECIFICATIONS

### Product Description

A two-component black bitumen coating that provides excellent anti-corrosive protection for “Hot-Wet” metal surfaces subjected to very high temperatures.

### Design Feature

- An anti-corrosive coating for boiler drums, tubes, evaporators and other equipment subjected to temperatures between 93°C to 540°C.
- Low permeability to moisture and steam.
- Excellent water repellence and anti-corrosive performance.
- Resistant to weathering, oxidation and mild acids and alkali solutions.
- Easy application by brush, roller or spray.
- Suitable for surfaces in contact with fresh or salt water.

### Physical Characteristics

Recommended Application Data	Wet [μm]	Dry [μm]	m <sup>2</sup> /l
Theoretical Coverage	100	40	10.0

Volume solids	:	40 % (based on ASTM D2697)
Dry Film Thickness Range	:	40 μm to 60 μm
Flash Point	:	38 °C
Finish	:	Matt
Colour Range	:	Black
Standard Packing Size	:	5 litres set (4.0 litres Base : 1.0 litres Reducer)
Mix Ratio (by volume)	:	4 Base : 1 Reducer

### Application Method

BRUSH, ROLLER OR CONVENTIONAL AIR SPRAY	:	Recommended methods of application. Apply a minimum of two coats to achieve an even application and ensure consistent performance.
AIRLESS SPRAY	:	Can be used. Tip Size : 0.28 – 0.38 mm (11 – 15 thou) Pressure : 110 – 160 kg/cm <sup>2</sup> (1600 – 2300 psi)

### Drying & Curing Time

Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval		Pot Life
			Min.	Max.	
15 °C	12 hours	*See	32 hours	Indefinite	14 days
25 °C	6 hours	Below	16 hours	Indefinite	14 days
35 °C	4 hours		12 hours	Indefinite	14 days

This product will hard dry when the water temperature is raised to 100°C for 5 hours normally achieved when it is brought into service.

### Useful Information

THINNER	:	SOLVALUX 7-9 (Maximum 10% Addition)
CLEANER	:	SOLVALUX 7-9
STORAGE	:	Store in a cool dry shaded area.
SHELF LIFE AT 25 °C	:	24 months minimum when stored as prescribed in the MSDS.

## Surface Preparation

The service life span and the service performance of APEXIOR 1 are directly related to the degree of surface preparation.

### STEEL

- Remove all wax, oil and grease by solvent cleaning in accordance to guidelines given by SSPC-SP1.
- Ensure that freshwater jetting is carried out to remove all loose contaminants and soluble salt deposition.
- Remove scales by chipping, needle gun or spot blasting. Any loose or flaking coatings should be removed back to a firm edge.
- Mechanically clean the surface using hand or power tools to a minimum standard of St 2 (ISO 8501-1:1988) or SSPC-SP2 taking care to avoid polishing the surface.
- Where necessaries remove weld spatter and round off all rough weld seams and sharp edges to a smooth surface.

### CONCRETE

- Ensure that the surface is sound. Remove laitence by thorough wire-brushing, acid etching or sweep blasting. Blowholes and other defects should be filled with Solventless Epoxy Filler.

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.

## Suitable Finish

Apexior 1

## Notes

- The coating specifications given above are typical. For specific recommendations to suit individual applications please refer to your Berger Paints representative.
- This product requires a minimum temperature of 93°C for 5 hours to hard dry. Ensure that this requirement is met in order for the product to function as stated.
- Not suitable for overcoating with other finishes as this product has the tendency to bleed.

## 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)**

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.

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