



APEXIOR NO. 3

Bitumen Coating

PRODUCT DESCRIPTION

A single component general purpose black bitumen coating that provides economical protection for steel and concrete.

DESIGN FEATURES

An anti-corrosive protective coating for steel and concrete in marine environments e.g. anchor chain areas.
 Low permeability to moisture. Excellent Water repellence.
 Excellent anti-corrosive performance.
 Resistant to weathering, oxidation, mild acids and alkali solutions.
 Can be applied to a variety of substrates, e.g. steel, concrete etc.
 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^2/l
	Theoretical Coverage	73	40
Volume solids	55 % (based on ASTM D2697)		
Dry Film Thickness Range	40 μm to 60 μm		
Flash Point	38°C		
Finish	Semi-Gloss		
Colour Range	Black		
Standard Packing Size	5 litres		
* For concrete, the theoretical coverage is approximately 5 m^2/l per coat or less depending on the porosity of the concrete.			

APPLICATION METHOD

BRUSH, ROLLER OR CONVENTIONAL AIR SPRAY	Recommended methods of application.
AIRLESS SPRAY	May be used. Ensure no overapplication.
	Tip Size : 0.28 – 0.38 mm (11 – 15 thou)
	Pressure : 110 – 160 kg/cm^2 (1600 – 2300 psi)
DIPPING	May be used.

DRYING TIME

Substrate Temperature	Touch Dry	Hard Dry	*Over-coating Interval	
			Minimum	Maximum
15 °C	8 hours	24 hours	24 hours	Indefinite
25 °C	4 hours	12 hours	12 hours	Indefinite
35 °C	2 hours	8 hours	8 hours	Indefinite
*For overcoating with itself only. For overcoating with other products, please refer to your Berger Paints representative.				

USEFUL INFORMATION

THINNER	: SOLVALUX 7-9 (Maximum 5% 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 3 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.
- Dry brushing to remove soluble salts, dirt and dust.
- Ensure that freshwater jetting is carried out to remove all loose contaminants and soluble salt deposition.
- Remove scale by chipping, needle gun or spot blasting. Any loose or flaking coatings should be taken 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 necessary 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 laitance by thorough wire-brushing, acid etching or sweep blasting. Blowholes and other defects should be filled with Solventless Epoxy Filler. Apply first coat with 10-20% dilution for better adhesion to substrate.

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 COATS	Apexior 3
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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.
- Not suitable when surface temperatures of coated items exceed 52°C. Use Apexior No.1 instead.
- 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)**

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.