



BITUSHIELD PRIMER SB

SOLVENT BASED BITUMEN PRIMER FOR BITUMINOUS WATERPROOFING MEMBRANE

PRODUCT DESCRIPTION

SmartCare Bitushield Primer SB is a fast drying, solvent based low viscosity non-oxidised bitumen primer for bituminous waterproofing membrane. When dry, the product forms an odourless and taints free bitumen film suitable for protection of substrates like metal, concrete, wood etc. against water attack. It is used as a primer on masonry and concrete substrates to improve the adhesion of bitumen based membranes.

USES

SmartCare Bitushield Primer SB is ideally used as a primer or sealer coat prior to the application of bitumen based water proofing membranes.

- Penetrates into concrete pores and improves adhesion between the bitumen based membrane and concrete surface.
- Asphalt primer for roofing, waterproofing and damp proofing
- Curing compound on freshly cast concrete – provides effective waterproof, weatherproof, corrosion resistant protective layer
- Resistant to low concentrations of alkalis and acids and can withstand prolonged oxidation
- Suitable for application to wide variety of materials like iron & steel, zinc, aluminium, cement, concrete, stoen,wood, felf, brick etc.

CHARCTERISTICS / ADVANTAGES

- Easy to apply. Cold applied. No additional heating is required.
- Versatile bituminous primer for porous and non-porous surfaces
- Binder for the dust particles which gets accumulated on concrete surface even after cleaning.
- Improves adhesion between bitumen based membranes and concrete
- Excellent barrier against ingress of chloride & sulphate ions and carbon dioxide diffusion.
- Can be applied on vertical and horizontal surfaces
- As a curing compound on freshly cast concrete.
- Rapid drying leading to seamless / joint free layer

PRODUCT DATA FORM

APPEARANCE/COLOUR PACKAGING

Black Colour, Liquid

PACKAGING

20 Litres and 200 Litres

STORAGE CONDITIONS / SHELF-LIFE

Container packs should always be stored in dry and shaded areas. The product should not be kept exposed to direct sunlight and should not be kept near to any source of heat. The shelf life is 12 months if stored as per recommendations. Failure to comply with the recommended storage conditions may result in premature deterioration of the product.

HANDLING PRECAUTIONS

As a precautionary measure and to avoid sticking of the bitumen to hands & skin, it is recommended to use gloves and safety goggles. In case of contact with human skin wash the affected area with plenty of fresh water immediately. Seek medical assistance immediately in case of any allergy or criticality.

TECHNICAL DATA

CHEMICAL PROPERTIES Chemical Base: : Solvent based Bitumen

MECHANICAL AND PHYSICAL PROPERTIES

Properties	Values	Test Standards
Form	Black Liquid	-
Colour	Black	-
Density @ 25°C, g/cc	0.93 3 0.50	ASTM D 1475
Solid Content, % approx.	68 3 5	ASTM D 2939
Rubber content, %	> 5	-
Elongation. %	> 50	ASTM D 412
Drying Time @ 30°C	5 hour	-
Service Temperature	- 5°C to +75°C	-

APPLICATION CONDITIONS

SUBSTRATE TEMP + 5to + 45 °C

AMBIENT TEMP + 5 to + 45 °C

APPLICATION DETAILS

SUBSTRATE QUALITY AND PREPARATION

The performance and ultimately the durability of the coating largely depends on the condition of the substrate on which it is coated on. Therefore, conditioning and preparation of the substrate is of utmost importance prior to the application of the coating.

- Inspect the surface conditions
- Surface should be levelled, tough and should not have defects like hollow areas or pot holes
- Check hollowness by hammering and repair such areas as well as pot holes using polymer modified cement sand mortar or appropriate concrete repair mortar
- Allow to cure for at least 72 hour before application of membrane
- Clean the surface thoroughly so that it is free from loose dust, particles, laitance, oil etc.

COVERAGE RATE

4 - 6 m²/l per coat (DFT of 100 microns)

APPLICATION METHOD / TOOLS

- Apply SmartCare Bitushield Primer SB directly on a new concrete.
- Application can be done by a brush or roller. On large areas the application may be done by an airless spray gun.
- Applied primer needs to be allowed to dry before application of subsequent coats.
- The coating shall be applied in a minimum of 2 coats for optimum performance.
- Coverage will vary depending on the area of application and the nature of surface.
- As the coating is bitumen based, it is extremely important to protect the applied coating especially on foundations from damage from ongoing site activities. Appropriate measures (e.g.150 micron polyethylene sheet) may be taken to cover and protect the coating.
- Clean all tools after use with appropriate solvent.

VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet.

PRECAUTIONS

- Do not apply during rains or extreme temperatures.
- Being solvent based the bitumen in the pack it has a tendency to sediment when stored for long durations. Therefore, it is recommended to stir the pack with a mixing paddle or roll the unopened drum on the ground for a few minutes to remove all sediments.
- In hot climatic areas, some amount of solvent may evaporate out during storage. This may make the coating quite viscous and difficult to apply. Add Solvalux 7-25 up to 5% may be added at the work site to improve the application consistency.

SAFETY FEATURES

Kindly refer to the MSDS which gives detailed information on safety measures while handling the product, which is available on request.

Store in a cool, dry place.

Keep out of reach of children and away from eatables.

May be harmful if swallowed. In case of ingestion seek immediate medical attention.

Eye protection during application is recommended.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of skin contact wash with soap and plenty of water. Get medical attention if irritation develops or persists.

It is recommended to wear suitable nose pad during surface preparation.

Dispose as per recommendation mentioned above.

No added Lead, Mercury or Chromium compounds.