

Bituthene® CP

1.5mm thick self-adhesive membrane with unique rubber/bitumen compound and cross laminated high density polyethylene for use on foundations in hot climates.

Product Description

Bituthene CP is the 1.5 mm thick damp-proofing/waterproofing membrane made of Bituthene® advanced self adhesive technology.

Bituthene CP can be used for elevated temperatures of up to +55 °C.

Bituthene CP complies with the international standard BS 8102: 2009.

Manufactured only by GCP Applied Technologies in the UAE to the highest standards of ISO 9001 & ISO 14001, Bituthene CP is readily available across the region to meet urgent demands.

Suitable Applications

- Damp-proofing
- Foundations
- Substructures
- Footings
- Manholes
- Inspection chambers
- Interchanges
- Underpasses & culverts
- Bridge abutments
- Elevated road pillar piers

For same hour application of primer and membrane
**use quick drying high coverage
 Bituthene® Primer B1.**

30 mins



Underpasses & Culverts



Foundations & Footings



Manholes



Bridge Abutments, Pillar Piers & Footings

Product Advantages

- **Safety**
 - No fire or gas hazard, or harmful fumes due to torching.
 - No hot works permit.
- **Fast, easy, cold applied**
 - Many contractors use their own labour for speed, cost, and to avoid scheduling issues, no additional logistics for torching equipments and gas cylinders.
- **Reduces installation risk** - no risk of:
 - Overheating that damages the membrane and affects performance.
 - Underheating – poor membrane adhesion and lap sealing affects water tightness.
- **Full width cross laminated HDPE film**
 - Only Bituthene® has edge to edge twin sealing for highest performance.
- **Siliconised release paper** – ensure smooth release even at high +55 °C site temperature.
- **Less waste, faster, quality installation**
 - Fast drying, high coverage Bituthene® B1 primer.
 - Unique bonding allows ‘repositioning’ during application.
 - **Pre-marked overlaps** – ensures minimum 50 mm overlaps without marking at site.
 - **Productivity** - full 20m² per roll with only 50 mm laps as standard.
 - 50% lighter – easier, faster handling especially for vertical applications.
 - Twice the coverage per roll, with 50% less wastage.

Supply

Bituthene® CP	1 m x 20 m roll (20 sq m) Weight 39 kg
Storage	Store upright in dry conditions below +40°C
Bituthene® Primer B1	25 litre units
Coverage	8-10 m ² per litre *
Drying time	30-40 mins
Bituthene® Primer B3	20 litre units
Drying time	10-12 hours
Coverage	8-10 m ² per litre *
Ancillary Products	
Bituthene® LM	5.7 litre packs
Servipak® Flex	Available in 3, 4 & 6 mm thicknesses **
Bitustik™ 4000	150 mm x 12 m roll

* Depending upon method of application, surface porosity and ambient temperature

** Please refer to Servipak Flex data sheet

Physical Properties

Property	Typical Value	Test Method
Thickness	1.5 mm	
Colour	Dark grey-black	
Tensile strength	35 N/mm ²	ASTM D 638
Elongation	300%	ASTM D 638
Tear Resistance	360 N/mm	ASTM D 1004
Puncture resistance	200 N	ASTM E 154
Adhesion to primed concrete, 23°C	1.60 N/mm	ASTM D 1000
Water absorption % by wt, after 24 hours	0.1 % maximum	ASTM D 570
Moisture vapor transmission rate	0.05 g/m ² /h	ASTM E 96

All declared values shown in this data sheet are based on test results determined under laboratory conditions and with the product sample taken directly from stock in its original packing without any alteration or modification of its component parts.

Health & Safety

Read the product label and Safety Data Sheet (SDS) before use. Users must comply with all risk and safety phrases. SDS's can be obtained from GGC Applied Technologies.

Packaging

Quality corrugated carton packaging & high quality large diameter crush resistant roll core

– ensures each roll is in prime condition from manufacturing up to the time of installation. It offers superior protection in storage and in transit avoiding unnecessary wastages. 20m² roll gives twice the coverage per roll size as standard compared with other 10m² rolls.

Installation

Surfaces should be structurally sound and free of voids, spalled areas, and loose aggregate and sharp protrusions. Remove contaminants such as grease, oil and wax from exposed surfaces. Remove dust, dirt, loose stone and debris. Concrete must be properly dried (minimum 7 days for normal structural concrete and 14 days for lightweight structural concrete). All surfaces except those below ground bearing slabs should be primed with one coat of Bituthene® Primer B1 or Bituthene® Primer B3.

Bituthene CP shall be laid by peeling back the protective release paper and applying the adhesive face onto the prepared surface. It should be rolled/brushed onto the surface to ensure good initial bond and exclude air. Adjacent rolls are overlapped 50 mm minimum at side and ends and well rolled with a firm pressure, aligning pre-marked side overlaps using a lap roller to ensure complete adhesion and continuity between the layers.

A 300 mm strip of Bituthene CP is to be applied at necessary internal and external corners.

Bituthene® LM is to be applied at penetrations prior to applying the overall membrane.

Repairs and Protection

- Damaged areas to be repaired with an oversize patch applied to a clean and dry surface extending 100 mm beyond damage and firmly rolled.
- Protect Bituthene® membranes immediately after application to avoid damage from other trades, construction materials or backfill, using only Servipak® Flex protection boards. Consult your local GCP representative for advice on protection thickness.

For detailed installation method refer to Bituthene CP Method Statement.

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