BITUTHENE® CP

1.5mm thick, self-adhesive membrane

Product Description

BITUTHENE® CP is a 1.5mm thick flexible, preformed waterproof membrane comprising a HDPE polyethylene film and a thick self-adhesive rubber/bitumen compound. The membrane has been designed and specially formulated to withstand high ambient temperatures.

Continuity is achieved by overlapping adjacent rolls by 50mm and firmly rolling. Being factory made, the thickness of the membrane is constant throughout and is not subjected to variation by site labour as occurs with brush applied membranes.

Product Advantages

- Chemically-resistant — provides effective external protection against aggressive soils.
- Single layer — simple, reliable, low labour cost.
- Cold-applied — self-adhesive overlaps ensure continuity.
- Flexible — accommodates minor settlement and shrinkage movement.

Installation

Measures should be taken to ensure that all surfaces are free from ice, frost or condensation. Installation is recommended between +10°C and +40°C.

Concrete blinding under base slab should be surface dry, free from standing water, and laid to a regular surface free from sharp protrusions and hollows.

Horizontal surfaces under base slabs do not usually require priming before applying the membrane.

Vertical surfaces shall be smooth, regular, dry and free from nails and primed with one coat of Bituthene Primer N applied by brush or roller at a rate of 5 to 8 sq m / L depending on the porosity of the surface, and allowed to dry completely before the application of the Bituthene CP. Brickwork shall be flush pointed or rendered to provide a smooth surface before priming.

Bituthene CP shall be laid by peeling back the protective release paper and applying the adhesive face onto the prepared surface. The material should be brushed on to the surface to ensure good initial bond. Adjacent rolls are aligned and overlapped 50mm minimum at side and ends and well rolled with a firm pressure using a Lap Roller to ensure complete adhesion and continuity between the layers.

Any punctures or damaged areas should be cleaned and patched using Bituthene CP with 50mm laps all round.

Pipe entries may be sealed prior to the application of Bituthene CP with Liquid Membrane extended over the adjacent flat slab area to give a minimum 50mm lap under the Bituthene CP. Liquid Membrane is a two component compound for waterproofing irregular profiles in conjunction with Bituthene systems.

Where Bituthene is to be left temporarily exposed on vertical surfaces, batten fixing may be necessary to prevent slippage. Prior to backfilling remove battening and cover fully with a subsequent layer of Bituthene.

Following application care should be taken to prevent damage by following trades by using a 25mm screed as Bituthene protection boards spot bonded with Pak Adhesive. Vertical faces to be protected if required against damage from backfilling and fixing of reinforcement by using Bituthene protection boards recommended by spot bonded with Pak Adhesive.

Health and Safety

Refer to relevant Material Safety Data Sheets.

Quality Assurance

GCP Applied Technologies is certified to ISO 9001 by TUV SUD PSB Pte Ltd.

Typical Performance Properties

PROPERTY	TYPICAL VALUES	TEST METHOD
Tensile Strength (Film)	19,700kN / m^2	ASTM D882
Tensile Strength (Composite)	M.D: 1.3N / mm C.D: 1.1N / mm^2	ASTM D412
Elongation (Composite)	≥ 300%	ASTM D412
Puncture Resistance	9kg	ASTM E154
Adhesion to Self	1,100N / m	GCP Test Method B77
Pliability	Pass	GCP Test Method

Specification

Bituthene CP preformed, self-adhesive membrane shall be laid on to smooth concrete substrates and on to vertical surfaces primed with Bituthene Primer N applying the preformed membrane sticky side downwards, to give well rolled 50mm overlaps, and shall be laid strictly in accordance with the manufacturer's instructions.

Supply

Bituthene CP	1m x 20m roll Average net weight 38Kg
Palletisation Storage	Up to 25 rolls per pallet Store upright in dry conditions below 35oC
Nominal Thickness	1.5mm
Bituthene CP	1m x 16m roll Average net weight 38Kg
Palletisation Storage	Up to 25 rolls per pallet Store upright in dry conditions below 35oC
Nominal Thickness	2mm
Bituthene CP	1m x 12m roll Average net weight 38Kg
Palletisation Storage	Up to 25 rolls per pallet Store upright in dry conditions below 35oC
Nominal Thickness	2.5mm

Ancillary Products

See separate data sheets

Bituthene Primer N	20L / pail
Coverage	5 to 8 sq metre / L depending on method of application, surface texture, porosity and ambient temperature
Bituthene Liquid Membrane	5.7L
Bituthene Mastic	4.5L / pail
Lap Roller	Unit

Complementary Materials

See separate data sheets

Equipment by Others

Soft brush, Stanley knife, brush or roller for priming. Stiff broom and airline for cleaning surface.

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