

BITUTHENE[®] 8000HC

Advanced, self-adhesive, solar reflective, unique HDPE composite film
Waterproofing membrane for waterproofing and protection of concrete in
basements, foundations and above ground waterproofing applications.

Product Description

GCP Applied Technologies (“GCP”) BITUTHENE[®] 8000 HC Waterproofing Membrane combines the proven BITUTHENE[®] adhesive technology with a unique, full width grey-colored solar reflective film to reduce solar gain and facilitate easier installation and damage detection. BITUTHENE[®] 8000 HC Waterproofing Membrane has been tested to withstand more than 70m head of water.

Product Advantages

- Membrane is printed with overlap lines and BITUTHENE[®] trademark to facilitate lap alignment and help prevent specified product substitution
- Tough light Grey reflective carrier film and black waterproofing compound contrast to allow for easy identification of any accidental surface damage and facilitate identifying areas needing repair
- PROPRIETARY ADHESIVE: Advanced self-adhesive formulation unique to GCP
 - Allows immediate repositioning, improving the quality and speed of installation
 - Durable intimate bond that prevents water migration
- Hydrostatic head resistance tested at laps crossing a crack >70 m
- Resistant to aggressive ground conditions
- Grey, solar reflective surface – reduces solar gain and allows up to 30 days exposure before backfilling.
- Water and moisture proof — Provides protection for Grades 1, 2, and 3 as per BS 8102:2009 and IS 16471:2017.
- Chemically Resistant - External protection against most aggressive soils and ground water conditions
- Cold applied — Self-adhesive overlaps designed to ensure continuity. No special equipment needed for application.
- Wide application “window” reduces delays — BITUTHENE[®] 8000HC (Hot Climate grade) application temperature upto +55°C
- Facilitates quality assured installation — Printed overlap line ensures minimum laps; light colour highlights accidental damage for simple patch repairs.
- Dimensional stability of the composite HDPE film aids in wrinkle-resistance.
 - Full width edge to edge film for highest waterproofing integrity
 - Twin seal system: best resistance to water and continuity of protection. Edge bead allows adhesive to adhesive sealing and Adhesive to film sealing is achieved due to full width of the film.
- System compatibility — Can be combined with PREPRUFE[®] pre-applied membranes, BITUTHENE[®].
- Liquid Membrane, and HYDRODUCT[®] drainage composites for single source system solutions.
- Since 1997, BITUTHENE[®] 8000HC product application and suitability has been certified by BBA for water tightness and durability

Website Operation

This document is applicable to projects and applications in the United Arab Emirates and Gulf countries only. “Click” on gcpat.ae to access your local United Arab Emirates website. At the top of the page you will see “United Arab Emirates” with a drop down arrow. You can find any of GCP’s worldwide websites here. If you want to access any other country’s GCP website, you can pick the country from the drop-down list. If you have a project in another country, you can navigate to the appropriate website from this menu. Note that because of local regulations, test standards and customs, product literature and offerings may be different in various locations. If you have any questions or comments, please contact your local customer service representative at info-ae@gcpat.com or +971-4-5139560.

System Components

Membrane:

BITUTHENE® 8000HC: Waterproofing membrane specifically designed to meet the extreme challenges of high temperatures and aggressive soil conditions

Ancillary Products: (the most current Data Sheets for all system components are available on gcpat.ae or from your local GCP representative.)

BITUTHENE® Primer B1/B3 is a solvent based, quick drying bituminous primer used to prepare vertical and sloping surfaces and suspended slabs, for BITUTHENE® HC grade membrane application.

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ADCOR® 500T/S-High performance butyl rubber polymer conformable hydro-expansive waterstop

ADCOR® 550 T-MI- A combined active and passive waterstop system with built-in redundancy for the secure sealing of concrete construction joints subject to hydrostatic pressure

BITUTHENE® Liquid Membrane:-A two component detailing liquid applied product. BITUTHENE® Liquid Membrane helps secure waterproof continuity at angles, terminations, penetrations and other critical areas. BITUTHENE® Liquid Membrane chemically cures, to a flexible well bonded rubber like compound

BITUSTIK™ Standard/Bitustik BT – Double sided, self adhesive, cold applied, waterproofing tape for membrane detailing and sealing. Contact GCP Technical Services for further details.

HYDRODUCT® Drainage Sheet – High impact and creep resistant geo-composite and protection layer. HYDRODUCT® Drainage Sheet is recommended, wherever substructure can be drained to a low level outlet away from the structure

SERVIPAK® FLEX Protection Board

It is critical to protect in place BITUTHENE® 8000 HC membranes from damage due to following trades and backfill. SERVIPAK® Flex Protection Board is specifically designed to help avoid damage to the in place membrane and ease of installation.

Limitations of Use

- Approved uses only include those uses specifically detailed in this product data sheet and other current product data sheets that can be found at gcpat.com. BITUTHENE® 8000 HC Membranes are not intended for any other use. Contact GCP Technical Services where any other use is anticipated or intended.
- BITUTHENE® 8000 HC Membranes are designed where in-service temperatures will not exceed 131 °F (+49°C).
- BITUTHENE® 8000 HC Membranes are not designed for permanent above ground exterior exposure. Exposed areas at upstands etc. should be covered with A GCP recommended suitable flashing material.
- Do not use BITUTHENE® Mastic to terminate BITUTHENE® Membranes to PREPRUFE® pre-applied waterproofing membrane systems. Terminations to PREPRUFE® membranes should only be done with BITUTHENE® LM
- Do not apply BITUTHENE® Membranes over insulation or lightweight insulating concrete. Contact GCP for further clarification.

Safety and Handling Information

Users must read and understand the product label and safety data sheet (SDS) for each system component. All users should acquaint themselves with this information prior to working with the products and follow the precautionary statements. SDSs can be obtained by contacting your local GCP representative or office, and in some cases from our web site at gcpat.ae.

Storage

- All products must be handled and stored consistent with BITUTHENE® 8000 HC methods statement
- All BITUTHENE® Membranes should be stored upright
- Observe one-year shelf life and use on a first in, first out basis.
- Store in dry conditions below 40°C
- Store off ground, under tarps or otherwise protected from rain and ground moisture.

Applications

BITUTHENE® 8000HC is designed to be used horizontally or vertically to protect basements walls and other critical sub-structures from the effects of water, and dampness.

Installation

Technical Support, Details and Technical Letters

The most up to date detail drawings and technical letters are available at gcpat.ae or in the applicable Method Statement. For complete application instructions, please also refer to the current GCP Applied Technologies Contractor Handbook and Literature on (www.gcpat.ae). Documents in hardcopy as well as information found on websites other than www.gcpat.ae may be out of date or in error. Before using this product, it is important that information be confirmed by accessing www.gcpat.ae and reviewing the most recent product information, including without limitation product data sheets and contractor manuals, technical bulletins, detail drawings and detailing recommendations. Please review all materials prior to installation of BITUTHENE® 8000 HC Membrane. For technical assistance with detailing and problem solving please contact your local GCP representative or office.

At air temperatures below +4°C measures should be taken to ensure that all surfaces are free from ice or frost. All surfaces except those below ground bearing slabs must be primed with the appropriate BITUTHENE®8000 HC primer as detailed in the individual primer product data sheet. Waterproofing Membrane shall be laid by peeling back the protective release paper and applying the adhesive face onto the prepared surface, free from ice, frost or condensation. BITUTHENE®Liquid Membrane to be applied at all internal and external corners, penetrations, etc., prior to applying the overall membrane. BITUTHENE 8000 HC Waterproofing Membrane should be brushed onto the surface to ensure good initial bond and exclude air. Adjacent rolls are aligned using printed lines 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. On high walls it may be necessary to batten fix the membrane to prevent slippage. Once the membrane is applied, cover with a protection board as soon as possible. On “green” concrete or damp surfaces, cover the membrane immediately.

Repairs, Protection & Drainage

- Damaged areas to be repaired with an oversize patch applied to a clean 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 Protection O3 boards.
- If the area around the substructure can be drained to a low level outlet then GCP recommends the use of HYDRODUCT® drainage sheets be used as protection board and to help direct water away from the structure.

Physical Property

Property	Typical Value	Test Method
Thickness*	1.5mm	ASTM D3767 Procedure A
Hydrostatic Head Resistance	> 70m (note 1)	ASTM D5385
Water Vapour Transmission Rate	0.023 perm	ASTM E96
Tensile Strength at 23°C	48MPa (carrier film)	ASTM D412 modified #
Puncture Resistance	250N	ASTM E154
Peel adhesion to primed concrete	2N/mm (note 3)	ASTM D 903 ¹
Lap peel adhesion (adhesion to self)	2N/mm (note 4)	ASTM D 1876 Modified ²

*Nominal thickness refers to the thickness of the membrane without release liner.

Note 1: Test carried out on an overlap crossing a post formed

Note 2: Typical value for BRE recommended minimum standard (BRE Report 212) is 360mL / m² / day. Typical test values may represent average values from samples tested. Test methods noted may be modified.

Note 3 The 180° peel strength is run at a rate of 12 in. (300 mm) per minute at 24°C.

Note 4 The test is conducted 15 minutes after the lap is formed and run at a rate of 2 in. (50 mm) per minute at 24°C.

Quality Assurance

GCP Applied Technologies is certified to ISO 9001 : 2008

Supply

Pack Size	1.0m x 20m
Roll Area	20sqm
Gross Weight	39kg

Declared values according to EN 13967		
Property	Declared Value	Test Method
Visible defects - MDV	None	EN 1850-2
Straightness - MDV	Pass	EN 1848-2
Length (m) - MDV	20.15 ± 0.15	EN 1848-2
Thickness (mm) - MDV	1.52 ± 0.08	EN 1849-2
Width Carrier Sheet (m) - MDV	0.987 ± 0.007	EN 1848-2
Width Overall (roll) (m) - MDV	1.000 ± 0.010	EN 1848-2
Mass per unit area (g/m ²) - MDV	1550 ± 150	EN 1849-2
Water tightness to liquid water (at 60 kPa)	Pass	EN 1928
Resistance to impact (Al-board (mm) - MLV)	= 150	EN 12691
Resistance to tearing (Nail Shank)- unreinforced sheets (N) - MLV	= 100	EN 12310-1
Joint strength (N/50mm) - MLV	= 190	EN 12317-2
Water vapour transmission (μ= sD/d) - MDV	105.000 ± 30%	EN 1931 Method B
Durability of water tightness against ageing/degradation (at 60 kPa)	Pass	EN 1296 EN 1928 Method B
Durability of water tightness against chemicals (at 60 kPa)	Pass	EN 1847 Method B EN 1928 Method B
Durability of tensile properties against chemicals	Pass	EN 13967 Annex C
Compatibility with bitumen	Pass	EN 1548
Resistance to static loading	= 20 - Pass	EN 12730
Tensile properties - unreinforced sheets (N/50mm) - MLV	Long ¹ = 180 Trans ² = 180	EN 12311-2 Method A

Tensile properties - unreinforced sheets (Elongation %) - MLV	Long ¹ = 5 Trans ² = 5	EN 12311-2 Method A
Reaction to fire (Class; test conditions)	E	EN 13501-1

Footnotes:

1. Longitudinal - related to the roll direction
2. Transversal - related to the roll direction
3. MDV: Manufacturer Declared Value
4. MLV: Manufacturer Limiting Value
5. NPD: No Performance Declared.

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.

	<p>GCP Applied Technologies (UK) Ltd. Ipswich Road, Slough, Berkshire, SL1 4EP</p> <p>06 09/FO17</p>
	<p>EN 13967 BITUTHENE® 8000/8000s Flexible Sheets for Waterproofing, Type T Reaction to fire: E Watertightness: Pass at 60 kPa</p>

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