

BITUTHENE®

Post-applied Waterproofing Membrane

BASEMENT WATERPROOFING

PROVEN HIGH-PERFORMANCE SHEET WATERPROOFING SYSTEMS

Effective waterproofing is crucial for any structure, whether built at or below ground level, as addressing leaks afterward can be both challenging and expensive.

Failures in basement or below-ground waterproofing present even greater complications due to the difficulty of accessing these areas for repairs. A range of costly and complex issues can stem from factors such as soil conditions, groundwater levels, environmental changes, inadequately cured concrete, poorly designed foundations, substandard workmanship, and more.

An effective waterproofing solution requires both a durable, fully bonded membrane system and robust protection for joints and connections, as these are common points for leakage.

To prevent water migration — where water seeps between the waterproofing layer and the structure — the waterproofing must form a strong bond with the structural components. Depending on project requirements and site conditions, waterproofing can be pre-applied, post-applied or integral. It is essential to choose the right waterproofing system during the initial stages of the project.

GCP have a range of solutions that deliver effective waterproofing for infrastructure and building projects. BITUTHENE® forms a complete fully bonded waterproofing system when applied with PREPRUFE® pre-applied membranes.



BITUTHENE®

POST-APPLIED WATERPROOFING MEMBRANE

The BITUTHENE® waterproofing system is a trusted post-applied waterproofing membrane, designed to provide exceptional protection against water intrusion.

Since its introduction more than 50+ years ago by GCP, the BITUTHENE® waterproofing membrane has been trusted in thousands of buildings and infrastructure projects around the world.

Its easy application process ensures convenience for contractors while significantly enhancing the durability and long-term value of important and complex structures.

BITUTHENE® membranes are formulated to be applied and perform under a variety of temperature conditions. Special grades for application to damp surfaces or green concrete, with special primers, are also available.

The BITUTHENE® membrane is supported by highly skilled and locally based field and technical service.

BITUTHENE® APPLICATIONS

Effective below ground waterproofing.

BITUTHENE® post-applied waterproofing membranes have been used in a variety of applications all around the world, serving as an effective waterproofing barrier:

Basement
Retaining Walls

Sub-structure/
Foundation

Podium/Plaza Deck

Balcony/Terrace

Underground Metro
Station Box

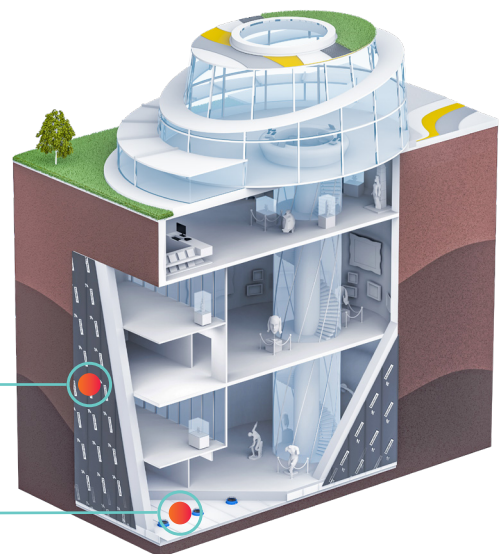
Rail/Metro Station
Platforms

Non-highway Bridges

Gas Proofing

Post-applied membrane
BITUTHENE®

Pre-applied membrane
PREPRUFE®



BENEFITS OF BITUTHENE®

Effective below ground waterproofing, the BITUTHENE® waterproofing system is a time-tested, field-proven product, that has been used in critical structures around the world.

BENEFITS

SELF-ADHESIVE	Self-adhesive overlaps eliminate the need for specialised equipment or training.
EDGE BEAD.	Edge bead allows adhesive to adhesive sealing, with the double strength of the adhesion to seal, attributed to the flexibility of the compound.
COLD APPLIED	No flame hazard with no heating equipment required.
PROTECTION	Incorporates a robust film and specially formulated adhesive provide effective water protection.
CROSS LAMINATED FILM	Provides dimensional stability, high tear strength, puncture and impact resistance.
FLEXIBILITY	It can be cold-applied at temperatures as low as -5°C, and can be placed on a variety of concrete surfaces.
CHEMICAL RESISTANCE	Provides effective external protection against aggressive soils and ground water.
SYSTEM COMPATIBILITY	Can be combined with PREPRUFE® pre-applied membranes, BITUTHENE® Liquid Membrane, and HYDRODUCT® drainage composites for system solutions.

BITUTHENE® PRODUCTS

AVAILABLE IN A NUMBER
OF GRADES TO SUIT ALL
PROJECT NEEDS

Designed to keep water out, BITUTHENE® waterproofing membranes have proven their versatility in a variety of applications. The comprehensive family of BITUTHENE® membranes includes:

PRODUCTS	APPLICATION
BITUTHENE® 3000/4000 High performance, cold-applied and self-adhesive membrane with 100 micron cross-laminated HDPE film and rubber bitumen compound.	Waterproofing membrane for basements, sub-structures and flat deck applications.
BITUTHENE® 5000 Heavy duty waterproofing membrane incorporating high strength, heat-resistant mesh embedded in a layer of self-adhesive rubber bitumen.	Waterproofing membrane for plazas, bridges, vehicular traffic structures, or parking decks overlaid with an asphalt concrete wearing course.
BITUTHENE® 6000 Heavy duty, cold-applied and self-adhesive membrane with 200 micron cross-laminated HDPE film and rubber bitumen compound.	Tough, high performance waterproof membrane for critical sub-structures and civil engineering works.
BITUTHENE® 6000 EIM Heavy duty, preformed composite membrane combining a self-adhesive rubberised bitumen compound and a tough, puncture-resistant four-ply polyethylene laminate.	Tough, cross-laminated polyethylene film for electrical insulation in critical sub-structures and civil works.
BITUTHENE® 8000 Combines the proven Bituthene adhesive technology with an unique, grey-coloured carrier film to withstand more than 70m head of water and is over 90 times more methane resistant than the BRE minimum recommendation.	Advanced, self-adhesive, water, moisture and gas proofing membrane for sub-structures.

COMPANION PRODUCTS

Available in a number of grades to suit project needs, GCP's comprehensive systems-based waterproofing approach and wide selection of fully compatible products enables the efficient protection of foundations.

PREPRUFE® PRE-APPLIED WATERPROOFING MEMBRANES

GCP is the category creator, developing the first pre-applied, fully bonded membrane in the world.

The PREPRUFE® Plus basement waterproofing membranes are specially designed to perform in critical applications and incorporate Advanced Bond Technology™, as well as the ZipLap™ double sided overlaps, to ensure fully adhered and long lasting performance.

DETAILING ANCILLARIES

It is essential to achieve an effective seal between the membrane and the penetration or joint.

PREPRUFE® DLM is a liquid detailing system which provides good adhesion, high tensile strength and is easy to apply. It is also low VOC, has no Isocyanates and is fully compatible with both the PREPRUFE® and BITUTHENE® systems.

BITUTHENE® LM is a trowel-applied liquid membrane specially developed by GCP to seal such penetrations. It has an excellent adhesion to most substrates and is elastomeric when cured. BITUTHENE® LM is compatible with other GCP waterproofing products, which reduces the risk of water penetration into structures.

LIQUID WATERPROOFING SYSTEMS

GCP offers effective liquid waterproofing systems. SILCOR® liquid-applied waterproofing optimises product application and durability and can be either spray or hand applied. It is a two-component liquid system that cures rapidly to form a seamless, monolithic membrane that fully bonds to the substrate.

SILCOR® is exceptionally durable with excellent wear and chemical resistance, offering long lasting waterproofing protection.

GCP's INTEGRITANK® spray-applied system is a highly durable waterproofing membrane that offers long-lasting protection. Its fully bonded nature means that water does not track behind the membrane, creating a straightforward solution to leak prevention.

ADPRUFE® INTEGRAL WATERPROOFING FOR CONCRETE

ADPRUFE® liquid waterproofing admixture significantly lowers the permeability of concrete to protect it from water absorption and reduce drying shrinkage. It produces easy to work with concrete, and minimises the need for post-injection of leaking cracks on the job site. It addresses the challenges of waterproofing intricate building structures while providing flexibility in scheduling and ensuring control over accelerated construction timelines.

PRIMERS

GCP offer a range of solvent and water based primers with damp-tolerant and low VOC capability.

These are specially formulated to perform with the BITUTHENE® range, offering exceptional coverage rate, low cost per square metre and fast application.

All waterproofing projects are unique. GCP offers a full range of foundation waterproofing systems for all project types, project conditions and project budgets.

Contact a GCP representative to discuss your project requirements.





GCP APPLIED TECHNOLOGIES

GCP • 487-488 Ipswich Road •
Slough • SL1 4EP • UK
Tel: 01753 490 000
www.gcpat.com

SCAN TO LEARN MORE



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