

Waterproofing + Concrete
We Understand Both

Betec[®] M-5

Waterproofing by Crystallisation for Concrete





Concrete is the most widely used construction material today for its strength, versatility and durability. While it may look and feel rock solid, it is actually vulnerable to water seeping through. This is exactly how a leak can occur and damage result in buildings and structures. Deep within the concrete is a network of pores, capillaries, and hairline cracks through which water can penetrate the surface and travel.



Waterproofing by Crystallisation for Concrete

The obvious solution to protecting a concrete structure from the ravages of water is to waterproof concrete. And it really is as simple as that.

GCP's Betec® M-5, a special blend of cement, quartz sand and active chemicals in powder form, turns concrete into a water-resistant barrier. Water, as a component in concrete, is naturally present in its pores and form a connective network of capillary voids. In addition, water can enter the concrete surface through pores and cracks. Instead of fighting against this water, the active chemicals in Betec M-5 work with it to trigger a chemical reaction which results in the formation of insoluble crystals. The crystals block off the water channels, thereby delivering in-depth and permanent protection against water penetration.

■ Betec® M-5 Benefits

Long-term Waterproofing	Permanent waterproofing even under high pressure, both on the positive and negative sides
Integral	Becomes a fully integral part of the concrete structure
Protection Over Time	Crystallisation starts from the surface and continues to penetrate into the concrete over time, deep within the capillary system
Reduces Cracks	Reduces shrinkage and hairline cracks
Seals Cracks	Seals hairline cracks that may occur from subsequent shrinkage or settlement, and static cracks
Fast Track	Simple and quick to install, it moves project schedule ahead of time. As a slurry coating, can also be used on wet surface, saving time
Environmentally Friendly	Non-toxic and odour-free



BETEC® M-5 APPLICATIONS

- Floor, basement wall and slab
- Swimming pool, water feature
- Bathroom, balcony, wet area and planter box
- Water-retaining structure
- Parking deck

Waterproofing + Concrete

GCP Applied Technologies has over 50 years experience in cement and concrete chemistry. Combining its expertise in both structural waterproofing and concrete, GCP developed the Betec M-5 crystalline waterproofing product for the long-term protection of concrete.

The GCP family of waterproofing solutions for concrete also includes the Adprufe® integral waterproofing system, ADVA® range of high performance concrete admixture, Adcor® hydrophilic waterstops, and Betec cementitious waterproofing.



Building Envelope Protection Solutions

GCP complete systems-based approach to waterproofing and its extensive range of fully compatible waterproofing products and accessories allow effective enveloping of structures with a flexible, fully adhered waterproofing barrier. GCP is a single source solution for virtually any below and above ground application.

Betec M-5 is developed to be fully compatible with all GCP waterproofing systems. These include the Preprufe® pre-applied waterproof membrane, where its advanced bond technology forms a unique integral seal to concrete poured against it. Together with its Bituthene® family of self-adhesive waterproof membranes, and Grace Ice & Water Shield® roofing underlayments, they have been applied to innumerable prominent projects all over the world. Silcor® liquid waterproofing offers architects and contractors further options, as it cures rapidly to form a seamless, monolithic membrane fully bonded to the substrate. Complementing the systems are Hydroduct® drainage components and a range of accessory products.



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