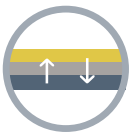


PREPRUFE® 100S

Specially developed by GCP Applied Technologies with over 50 years experience in below ground waterproofing, and over 25 years experience in pre-applied waterproofing technology, PREPRUFE® 100S pre-applied waterproofing consists of a layer of high strength HDPE film, self-adhesive polymer layer and a unique particulate layer. PREPRUFE® 100S is a non-water tracking membrane* which will bond fully and permanently with concrete poured against it. PREPRUFE® 100S complies with BS 8102:2009.

PREPRUFE® 100S is an economical waterproofing solution intended for low hydrostatic pressure or intermittent water conditions in shallow basements. Applications include construction such as parking, plant rooms and utility grade basements.

Features & Benefits



Fully Bonded System

1.2mm thick PREPRUFE® 100S seals to concrete & remains unaffected by ground settlement beneath slabs



Zero Water Migration

Full and unique adhesive bond to concrete prevents water tracking between the membrane and the structure



Advanced Bond Technology™

Engineered to adhere directly to poured concrete avoiding the need for costly & time consuming protection layer



Tough & Flexible

Composed of durable and flexible HDPE geomembrane that is resistant to site activities



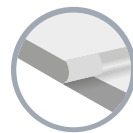
Resistance to Chemicals, Gas & Moisture

Achieved by the HDPE geomembrane and the integral continuous waterproofing seal



Schedule Acceleration

Immediately trafficable membrane allows same day rebar installation.



Self Adhesive Overlap

Strong and fast overlap seldge bonding that makes PREPRUFE® 100S a robust pre-applied solution for harsh jobsite conditions



Simple Installation

Requiring only one companion product to complete the installation including complex detailing



Safe

Cold applied, no welding, no torching and no hazardous fumes

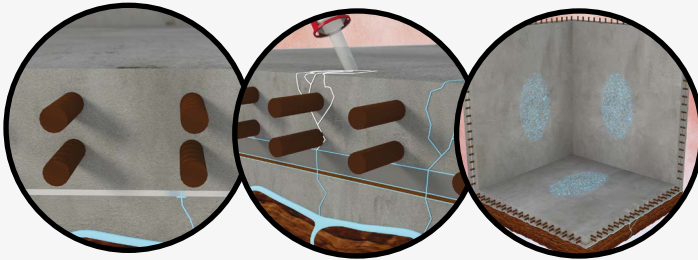
PREPRUFE® 100S system components:

1. PV 100 Tape for end laps and cut edges detailing
2. BENTORUB® Salt swellable waterstop for construction joint (as per design)
3. Re-injecto LB re-injectable hoses (as per design)
4. BITUTHENE® 3000HC as post-applied membrane for two side retaining wall

Why is it important to have a Fully Bonded Membrane?

Resisting Water Migration

Conventional Unbonded Membranes



Conventional membranes are either unbonded or bonded to the substrate and normally covered with protective layers or screed separating them from the structure. When there is damage or a defect in the membrane, water can track between the membrane and the structural concrete looking for cracks or weakness in the concrete.

The unbonded protection layer worsens the problem by providing water paths across the whole slab. Leaks can be temporarily sealed from the inside but the water will keep travelling under pressure or by capillary action to find more ways into the structure.

PREPRUFE® Fully Bonded Membrane



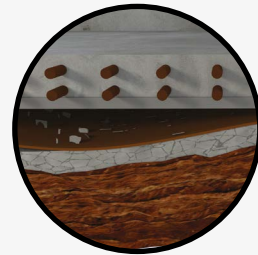
With PREPRUFE® membranes, the protection layer is eliminated and the membrane is bonded tightly to the structural concrete to prevent water penetration.

Independent testing has shown PREPRUFE® to resist lateral water migration under pressure.

Compared with welded or hot applied membranes, the simplicity of PREPRUFE® installation has minimised the complexity of waterproofing and reduced the risk of failure.

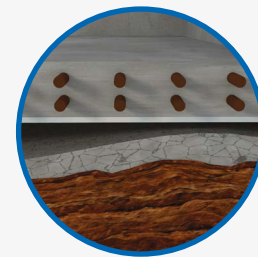
Ground Settlement

Conventional Unbonded Membranes



Most structures, especially those on piled foundations, are liable to partial or full ground settlement below the slab. When ground settles or compacts unbonded membranes will fall away from the structure leading to failures and water penetration.

PREPRUFE® Fully Bonded Membrane



With PREPRUFE®, the membrane is fully sealed to the structural concrete and is unaffected by any ground settlement. The PREPRUFE® membrane remains fully bonded to the structure to resist hydrostatic pressure and avoid membrane stress.

Are you working on a project with a basement? There is a PREPRUFE® suitable for your 'Techno-Commercial' requirements. Contact GCP to see a comprehensive range of PREPRUFE® waterproofing solutions.

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