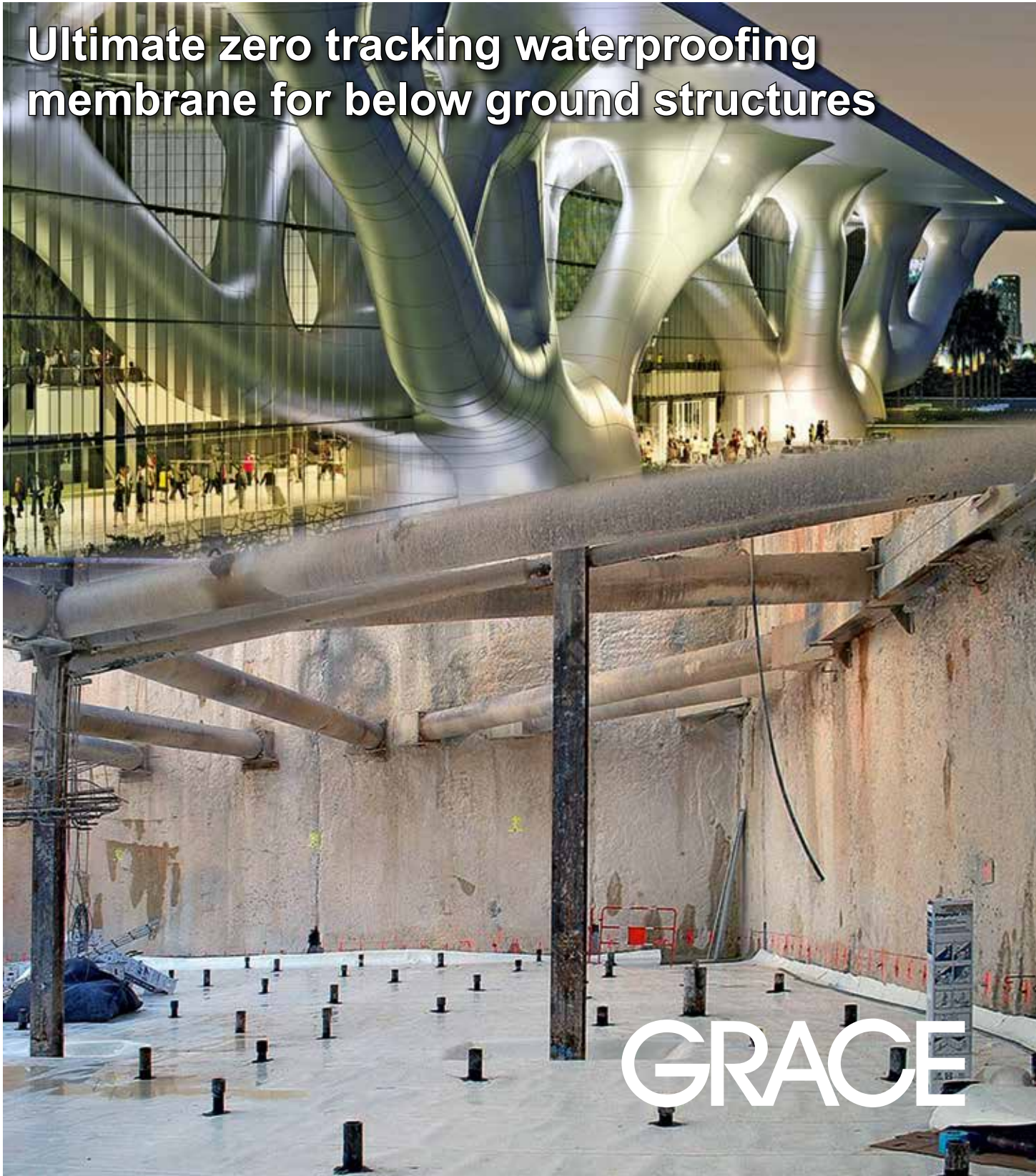


Preprufe® Plus



Advanced
Bond Technology™

Ultimate zero tracking waterproofing
membrane for below ground structures



GRACE

Preprufe® – The Original Pre-Applied Waterproofing System

The world's original waterproofing system engineered for below slab and blind side applications, Preprufe® membrane has been installed and proven in some of the most challenging building projects worldwide.

Composed of resilient HDPE layers, Preprufe® waterproofing membrane is inherently waterproof, with excellent chemical resistance and low vapour permeability. Grace's patented Advanced Bond Technology™ enables concrete to aggressively adhere to Preprufe®. Preprufe®'s full and unique seal to concrete prevents any water tracking between the waterproofing and the structure. The Preprufe® seal to concrete remains unaffected by ground settlement beneath slabs.

The new Preprufe® ZipLap™ has an improved overlap bonding that makes Preprufe® Plus the most robust pre-applied solution for harsh jobsite conditions.

Preprufe® Application Advantages

Preprufe® system reduces complexity and application risk



SELF
ADHESIVE
LAPS -
NO HEAT,
POWER OR
EQUIPMENT

WET PATCH
DOES NOT
DELAY
APPLICATION,
NO PRIMER

FAST
MEMBRANE
APPLICATION -
2 MAN TEAM -
36M² ROLLS,
TYPICALLY
600M² A DAY

SECURE
SEALING
PENETRATIONS
WITH UNIQUE
DETAIL
MEMBRANE
BITUTHENE LM

BOTTOM
REBAR -
QUICKLY
PROVIDES
WORKING
PLATFORM

NO
PROTECTION
LAYERS -
MEMBRANE
IMMEDIATELY
TRAFFICABLE

REBAR
FOLLOWS
SAME DAY

Preprufe® Plus



Advanced
Bond Technology™

Unrivalled
water
tracking
performance

THE ORIGINAL BOND TO CONCRETE TECHNOLOGY

**Complete and intimate seal
prevents water ingress and migration**

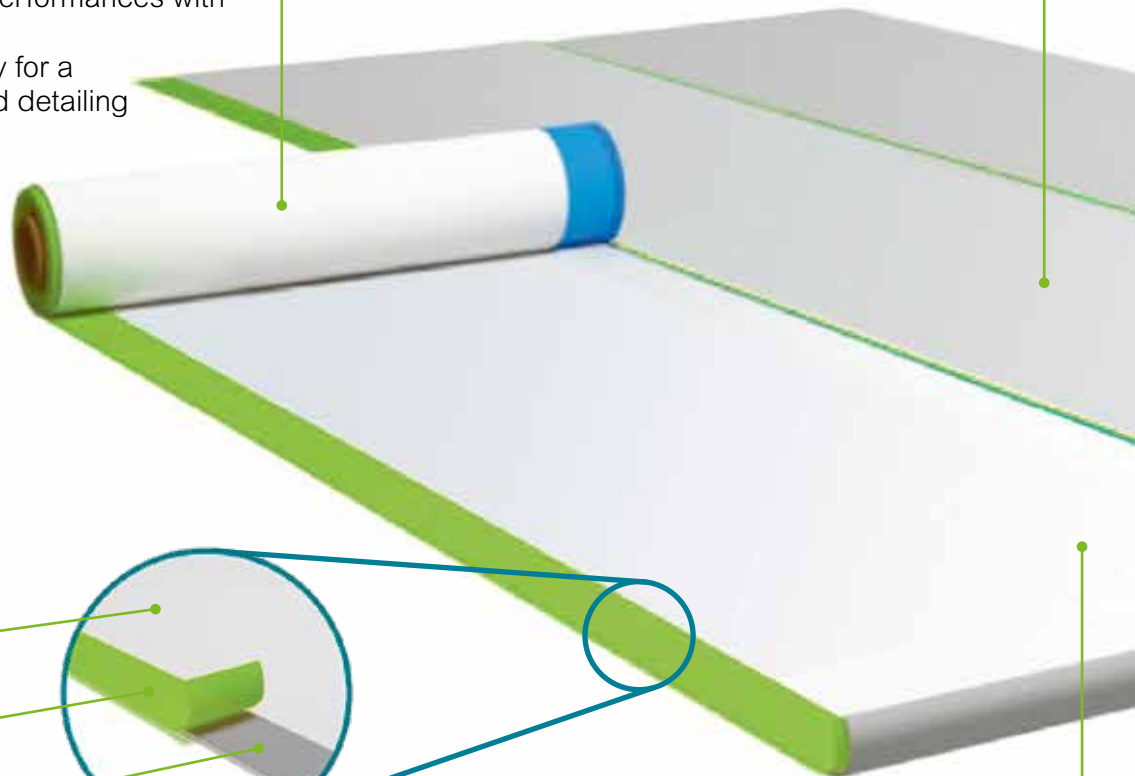
- More than 20 year track record on major projects all over the world
- Eliminates water tracking between the membrane and structure in any direction, whether under pressure or by capillary action
- Reduces risk of leaks and remedial costs

Strength &
Durability

HDPE FILM

**Resilient and flexible for a
durable waterproofing**

- Excellent chemical resistance to sulphates and chlorides
- Protect your structure as soon as it is installed and will protect it for the life of the building
- Zero vapour permeability
- High mechanical performances with low weight
- Easy conformability for a fast application and detailing



Preprufe® adhesive and
self protected coating on
HDPE membrane

Coloured release liner

Self adhesive side lap

Reduces
environmental
footprint

RELEASE LINER-FREE

- Reduces site waste
- Reduces chances of installation error
- Speeds installation

PREPRUFE® ZIPLAP™

Innovative adhesive-to-adhesive bond at the seams

- Retains strong bond in wet and/ or dusty conditions
- Effective down to 0°C.
For sub-zero application, Preprufe Tape LT can be used
- Fast execution, immediate sealing without welding or special equipment

Stronger laps in wider weather window



KICK-OUT ROLL

Easy and fast application

- Just position the roll on the horizontal substrate and kick out
- Fast unrolling expedites membrane installation
- Only two operators needed for labour cost reduction

Even Faster application

Advanced Bond Technology™

Why is it important to have a fully-bonded membrane?

Resisting water migration



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

Compared with welded, compartmented, or fleece bonded membranes, the simplicity of Preprufe® system has reduced the complexity of waterproofing, speeding installation and minimising the risk of failure. Unlike reactive technologies, the in place performance of Preprufe® does not rely on hydration or chemical activation and provides both immediate and lifetime protection, under either permanent or variable water pressures.

Zero water tracking

Proven resistance to water migration

Preprufe® has been proven to resist water migration under independent supervision by measuring the resistance to hydrostatic pressure at a simulated break in the membrane.

ASTM D5385 test method was modified using Preprufe® membrane with a patch removed. Tubes were placed remote from the opening to simulate water paths through the concrete (picture right).

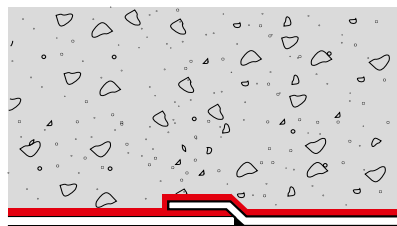
No leaks or water migration were detected in excess of 70m head of water. The tests extended over a number of years.

Secure overlap – Preprufe® ZipLap™

The effectiveness of a waterproofing system relies on the performance of both the membrane and the overlaps. Preprufe® uniquely provides a double level of protection with self-sealing overlaps plus a membrane that seals integrally to the structural concrete. The new Preprufe® ZipLap™ provides an enhanced sealing of the overlaps within a wider weather window and in harsh conditions combined with a fast and easy way of execution without specialised equipment, heat or power.

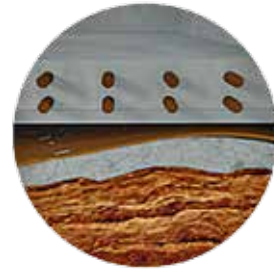


Preprufe® ZipLap™, with its innovative adhesive to adhesive bonding system, provides the first strong barrier to water infiltration .

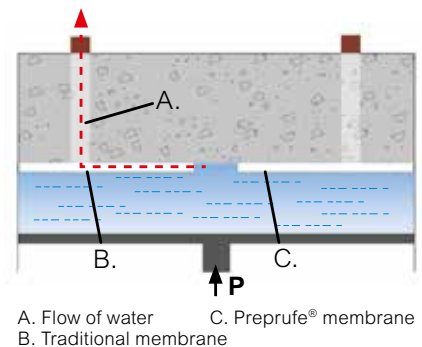


The special Preprufe® adhesive matrix, with Advanced Bond Technology™, forms a continuous and intimate seal to concrete to provide the second level of protection.

Ground settlement

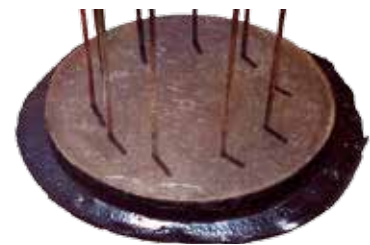


With Preprufe®, the membrane is fully sealed to the structural concrete and is unaffected by any ground settlement, avoiding membrane stress.



A. Flow of water
B. Traditional membrane
C. Preprufe® membrane

Detailing Ancillaries



Penetrations through slabs and walls are highly vulnerable to water ingress, so it is essential to achieve an effective seal between the membrane and the penetration. Grace has developed Bituthene® LM, a 2-component trowel applied elastomeric liquid membrane to seal these penetrations, with excellent adhesion to most substrates when cured.

Preprufe® in the world

50+ Million square meters applied !

- More than 50 Million square meters applied across the world
- Used on critical projects in all climates
- A track record of more than 20 years on the most important projects in the world:
 - Hotels
 - Museums
 - Hospitals
 - Shopping malls
 - Residential buildings
 - Embassies
 - MRT
 - Airports
 - Nuclear & Industrial plants
 - Stadiums

For more information and case studies, please visit www.preprufe.com

Grace technical experts can assist throughout your project delivery process

Grace has a global specification team committed to ensure that projects in all countries run smoothly and receive full support and coordination from the conception of the specification to its execution. No matter the distance between you and your project, we can help.

Grace's team has developed relationships, infrastructure and knowledge of the complexities of construction practices in all regions around the world and offers a broad technology portfolio.

Grace supplies products to more than 120 countries worldwide, through its plants and facilities in more than 40 countries, supported by a team of almost 6,000 people.

For any enquiry, please contact us at preprufe@grace.com

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