

Preprufe®

Cold Fusing, Blind Side Adhesive Sheet Membrane

Description

Preprufe® is a unique, preformed multi-layer sheet of tough high-density polyethylene (HDPE), a special reactive adhesive and a protective coating.

When concrete is poured onto or against Preprufe® it bonds by a chemical, cold fusion reaction to give a permanent adhesive union.

Preprufe® waterproofing membrane is the result of years of research and worldwide patented Grace Technology.

Uses

Preprufe® is designed for slabs or lift pits placed on piled unstable sites where conventional membranes bonded to a working slab may be damaged by settling of the subsoil.

It is also used on tight access site walls where external membrane application is impossible.

Grades

Preprufe®300R: Heavy duty - lift pits, basement floors

Preprufe®160R: Cost-effective application to basement floors, walls, tunnels or lift pits.

Features

- Preprufe® membranes comply with all **Green Star** requirements and have no zero VOC rating.
- Used with Grace Bituthene® and compatible with Chemind membrane systems
- Quick, cold applied, clean installation - no primer
- Chemically resistant, unaffected by salt water or acid sulphate soils and clay
- A total barrier to methane, radon and gas
- Waterproof for life of structure, will not become brittle
- BBA Certified and Fully Warranted
- Proven track record – Worldwide
- Not reliant on confining pressure
- May be applied in wet conditions and at temperatures of -4 °C or above
- Not affected by temperature extremes
- Complete Envelope Waterproofing for total project using Grace and Chemind systems

NOTE

- Surface does not need to be dry, but standing water must be removed
- Full rolls of Preprufe® weigh 42 - 50kg and must be handled by two persons

Typical Properties

Property	300R	160R
Nominal Thickness	1.2mm	0.8mm
Roll Size	1.2m x 30m	1.2m x 35m
Tensile Strength	27.6MPa	27.6 MPa
Elongation	300% (Min)	300% (Min.)
Puncture Resistance	990N	445N
Water Vapour Transmission	0gm ² /day	0gm ² /day
Peel Adhesion to Concrete	880N/m	880N/m
Hydrostatic Head Resistance	>70m	>70m
Crack Cycling @ -23°C	Pass	Pass

Substrates

Surfaces are to be smooth concrete or shotcrete with voids <12mm. Grout all penetrations, conduits, etc for stability.

Lost formwork, plywood, steel piling or other solid material able to support concrete placement are suitable.

To expedite installation efficiency on horizontal areas, lay Preprufe on 50mm mortar blinding layer.

Application

Generally

Apply with HDPE side down and printed white side up.

- Position overlaps and Preprufe Tape joints carefully before making adhesive bond. Roll all laps and joints.
- Stagger end laps to prevent build-up.

Horizontal

- Lay Preprufe® taking care to overlap the previous sheet along marked selvedge.
- Ensure underside of succeeding sheet is clean, dry and free from contamination before making overlap.
- Peel back plastic release liner between overlaps as the two layers are bonded together. Ensure a continuous bond is achieved without creases.
- Leave plastic release liner in position until overlap procedure is completed.
- Use Preprufe® Tape to seal laps if no self-adhesive edge is available and to seal cuts, clouts and detail pile caps, penetrations, etc.
- Ensure that Preprufe® membrane lays flat and no openings occur.
- On completion remove plastic liner film.

Application (continued)...

Vertical

- Cut Preprufe® to length, mechanically fasten with printed side facing installer.
- Use stainless steel support strip 50mm from top edge.
- Pin Preprufe® in place through selvedge.
- Cover any exposed fixings with Preprufe Tape.
- Overlap previous sheet along marked selvedge.
- Peel back plastic release liner between overlap and roll laps. Ensure continuous bond without creases.
- Use Preprufe tape on cut, detail and end laps - fully roll and seal all overlaps.
- Prevent sags in membrane - damage may occur.
- Remove plastic liner immediately following installation.

Internal Corners

Form internal corners by folding to give close fit to substrate and avoid hollows.

Repair

Inspect before concrete placement - repair damage with Preprufe® Tape and roll firmly and/or use Bituthene LM.

Concrete Placement

- Ensure plastic liner is removed. Reinforcement and concrete may be placed immediately or within 42 days.
- Place and compact concrete carefully so as to avoid damage to membrane.



NOTE

Only remove formwork when concrete is a minimum strength of 10N/mm², this is usually achieved one week after placement.

For specific installation requirements, Contact Chemind Construction Products Technical Department.

Precautions

Do not cluster penetrations. Over-flash with Preprufe® Tape and/or Bituthene® LM liquid.

Coverage

Approx (allowing for laps) - Preprufe® 300R 34m²/roll and Preprufe®160R 40 m²/roll.

Packaging

Preprufe®300R in 36m² rolls of 50kg.

Preprufe®160R in 42m² rolls of 42kg.

Preprufe® Tape in 100mm x 15m rolls.

Bituthene® Liquid Membrane in 5.7litre kits

Clean Up

No clean up provision is necessary.

Shelf Life

Indefinite life if stored in a cool dry place.



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