

# Grace Florprufe™ 120

Cold Applied, Blind Side Adhesive, Vapour Proof Membrane

## Description

A unique, preformed, multi-layer sheet consisting of a tough polyolefin sheet, a specially formulated chemically reactive adhesive and a protective coating.

Concrete, when poured onto or against Grace Florprufe™ 120, bonds by a chemical, cold fusing reaction with the special adhesive layer to give a permanent union.

## Uses

Grace Florprufe™ 120 is specifically designed to protect expensive or moisture sensitive flooring such as timber, parquetry, carpet, marble, tiles or vinyl, bonded to “slab on ground”, and subject to rising damp in sloping or high water table areas.

Used as under slab waterproof membrane for basements subject to water and vapour pressure, but not in water table. Installed over compacted fill, sand or blinding layer.

Florprufe™ 120 may be used in conjunction with Grace Bituthene® self-adhesive sheet membrane or Chemind liquid membranes on associated retaining walls etc.

## Features

- Cold applied - no toxic fumes.
- Simple laps - mechanical or tape fixing.
- Does not dehydrate like clay panels.
- Permanently bonds to the underside of the concrete slab.
- Stays bonded, even with ground settling.
- Proven track record Worldwide.
- Lightweight, quick and clean installation.
- Ultra low vapour permeability.
- Concrete can be placed immediately.
- May be applied in wet conditions and at temperatures of -4 °C or above.
- Performance is not affected by extremes of temperature, will not become brittle.
- Systems for Total Project Specification.

## Typical Properties

Colour	Light Blue
Nominal Thickness (ASTM D3767 Method A)	0.5 mm
Roll Size	1.2 metres x 35 metres
Tensile Strength (ASTM E154)	68 lbs/inch
Elongation (ASTM D412)	300%
Puncture Resistance (ASTM D4833)	41 lbs
Water Vapour Permeance (ASTM E96 Method B)	0.03 perms
Peel Adhesion to Concrete (ASTM D903)	> 4 lbs/inch

## Preparation

Substrate to be well compacted sand or granular fill. Florprufe™ 120 may also be laid over a fresh concrete blinding layer.

## Application

- Apply Florprufe™ 120, loose laid onto the prepared sub-base with the blue side down and white side up.
- Stagger end laps.
- Allow end and side overlaps of 50 mm that can either be mechanically secured or taped.
- Turn membrane up slab edge boxing or footings and detail to penetrations.
- Seal Florprufe™ 120 to footings and penetrations with Grace Preprufe® Tape or Chemind liquid membrane.
- Remove and discard all release liner film.
- Use 12 mm washer head, self-tapping, galvanised screws for mechanical fastening. Allowing the screw head to embed into the Florprufe™ 120 compound. Additional fastening may be required at corners and at detailing etc.

- When a tapping system is preferred, Grace Preprufe<sup>®</sup> Tape can be used to overband laps.
- The unique bond of Florprufe<sup>™</sup> 120 to concrete provides continuity of vapour protection at laps.
- Slab reinforcement and concrete can be placed immediately.
- Ensure that the Florprufe<sup>™</sup> membrane lays flat and no openings occur.
- Grace Bituthene LM liquid Membrane should be used to fully seal around penetrations, pipes, etc.

#### NOTE

Full rolls of Florprufe<sup>™</sup> 120 weigh 37 kg and should be handled by two persons.

#### Concrete Placement

Place concrete within 30 days of installing Florprufe<sup>™</sup> 120. Inspect membrane and repair any damage with patches of Preprufe Tape. Ensure that liner is removed from all membrane and tape before concreting.

#### Coverage

Allowing for overlaps, each 42 m<sup>2</sup> roll of Florprufe<sup>™</sup> 120 will cover approx. 40 m<sup>2</sup>.

#### Packaging

Florprufe<sup>™</sup> 120 is packed in 42 m<sup>2</sup> rolls  
Preprufe<sup>®</sup> Tape in 15 m x 100 mm rolls.  
Bituthene<sup>®</sup> LM Liquid Membrane is packed in 5.7 litre kits.

For more information, see the  web site at [www.graceconstruction.com](http://www.graceconstruction.com).



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