

Bituthene® 4000 DW

Cold applied, self-adhesive waterproofing membrane for roofs of drinking water structures, for use with Primer B2.

Advantages

- WRAS listed - suitable for use on structures containing potable water.
- Moisture tolerant primer - allows application to damp and "green" concrete.
- Low temperature application - super adhesive compound bonds to concrete down to -10°C.
- Simple application - lap security enhanced by super adhesive compound, no heating plant required.
- Chemically resistant - provides effective external protection against aggressive soils, contaminated ground water, dilute acids and alkalis.
- Flexible - accommodates minor settlement and shrinkage movement.

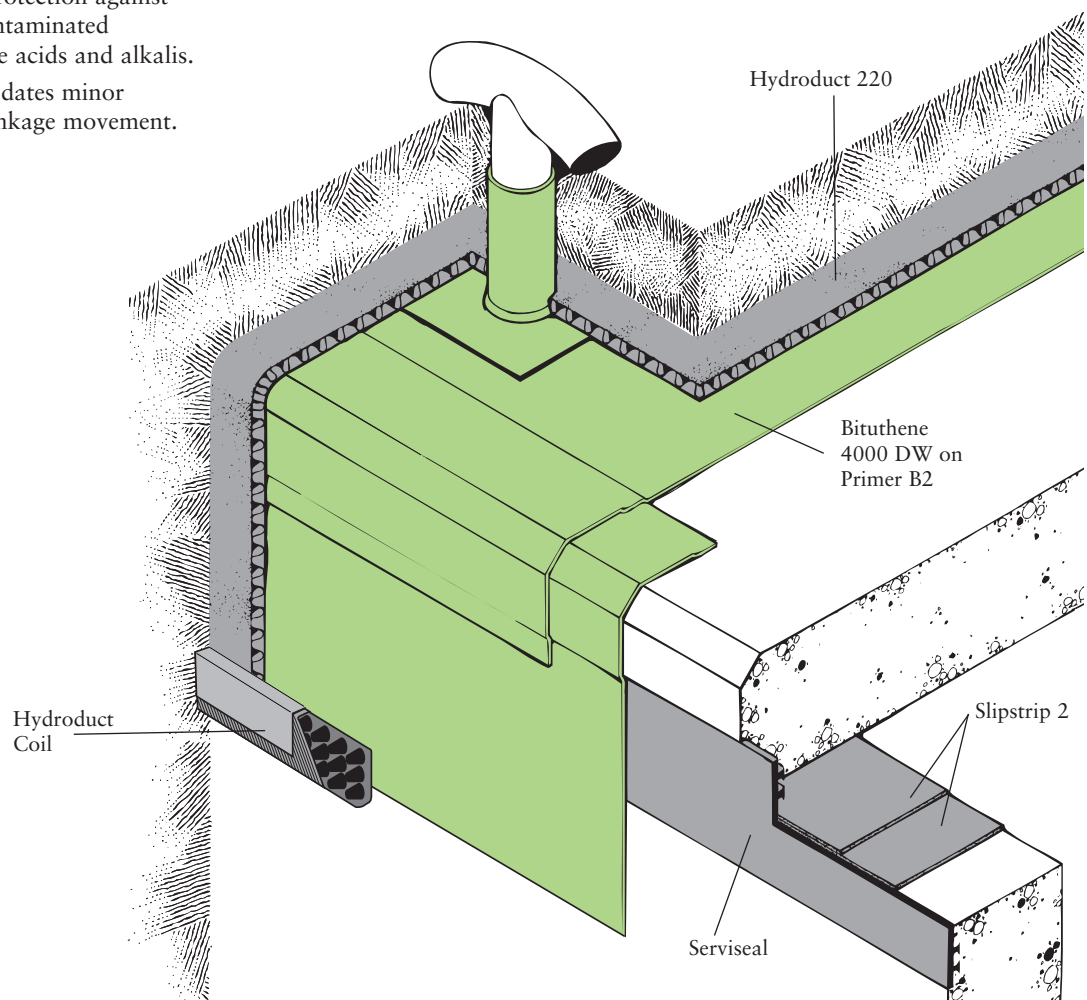
Applications

Bituthene® 4000 DW is an advanced, cold applied, waterproofing membrane combining a cross laminated HDPE carrier with a super adhesive rubber bitumen compound.

Designed specifically for waterproofing roofs of drinking water structures, Bituthene 4000 DW offers the significant benefit of all year round application.

The Primer B2 and special compound ensure bond to dry and damp concrete at application temperatures between -10°C and +35°C.

Bituthene 4000 DW must be used with Primer B2 and the use of Servipak® 3 protection board is recommended. Where roof drainage is required Hydroduct® geocomposite sheet can be used in lieu of Servipak 3.



Supply

Bituthene® 4000 DW	1 m x 20 m roll (20 sq m)
	Weight 32 kg gross
Storage	Store upright in dry conditions below +30°C
Palletisation	15 rolls per pallet
Primer B2	5, 25 litre drums
Coverage	10-12 sq metre per litre depending on method of application, surface texture, porosity and ambient temperature
Ancillary Products	
Servipak® 3 protection board	For protection against damage
Hydroduct®	In lieu of stone drainage
Lap Roller	Unit

Equipment by Others

Soft brush, Stanley knife, brush or roller for priming. Stiff broom and airline for cleaning surface

Installation

The installation of Bituthene 4000 DW should not be carried out at temperatures below -10°C.

At air temperatures below +4°C substrates must be free of ice and frost. All surfaces must be dry or damp to touch but free of standing water. Concrete finishes must be free from sharp protrusions, hollows and nails.

All surfaces must be primed with Primer B2 applied by roller or brush at a rate of 10-12m²/litre, depending on the porosity of the substrate and allowed to dry before applying Bituthene 4000 DW membrane.

Apply 300mm strips of Bituthene 4000 DW to all internal and external corners.

Bituthene 4000 DW membrane shall be applied by peeling back the protective release paper and applying the adhesive face onto the primed substrate.

The material should be brushed onto the surface to ensure good initial bond and exclude air. Adjacent rolls are aligned and overlapped 50mm minimum at side and ends and well rolled with a firm pressure, using a lap roller to ensure complete adhesion and continuity between the layers. Damaged areas to be repaired by patching with an oversize patch applied to a clean dry surface and firmly rolled.

Vertical faces should be protected against damage from backfilling by using Servipak 3. Alternatively Bituthene 4000 DW can be covered Hydroduct® 220 on the roof and walls which acts as a combined protection and drainage layer.

On buried reservoir roofs the membrane may also be protected by a drainage layer of well rounded gravel carefully applied to prevent mechanical damage during installation.

Health And Safety

There is no legal requirement for a Material Safety Data Sheet for Bituthene 4000DW, Servipak 3, Hydroduct or Lap Roller. For health and safety questions on these products please contact Grace Construction Products Limited. For Primer B1, read the product label and Material Safety Data Sheet (MSDS) before

use. Users must comply with all risk and safety phrases. MSDS's can be obtained from Grace Construction Products or from our web site at www.graceconstruction.com.

Specification

Bituthene® 4000 DW preformed, self-adhesive membrane shall be laid on to smooth concrete slabs and on to walls primed with Primer B2, applying the preformed membrane sticky side downwards, to give well rolled 50mm overlaps, and shall be laid strictly in accordance with the manufacturer's instructions and supplied by Grace Construction Products Limited, Ajax Avenue, Slough, Berkshire, SL1 4BH, United Kingdom. Tel: +44 (0)1753 692929. Fax: +44 (0)1753 691623.

Other Grace products approved for use in drinking water structures	
PRODUCT	USE
Aerofil® 2	movement joint filler board
Servitite®	PVC waterstop for joints
Serviseal®	PVC waterstop for joints
Slipstrip™ 2	Slip bearings

Details shown are typical illustrations only and not working drawings. For assistance with working drawings and additional technical advice please contact Grace Technical Services

Visit our web site at www.graceconstruction.com

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