

COLPHENE BSW TANKING SYSTEM

Bitumen membrane system for underground waterproofing

August 2024

PURPOSE AND SCOPE OF USE:

The COLPHENE BSW Tanking Membrane system is a high-performance, reinforced modified SBS bitumen membrane system, designed for underground waterproofing with specific products for horizontal or vertical applications. While COLPHENE BSW is suitable for a range of underground waterproofing situations, it provides highly robust tanking to protect areas against a high risk of hydrostatic water pressure. Solutions can be provided for buildings of all sizes and requirements including pre-applied loose laid under-slab, pre-applied to vertical walls, external blind side waterproofing or post applied to vertical walls with options for torch-on or self-adhesion. The upper surface of the membrane is coated with crystals that specifically adhere to the concrete slab when freshly poured against the membrane. This adhesion with the concrete creates a watertight bond preventing water infiltration to the concrete.

The complete system includes swellable waterstops, and a drainage and protection layer laid between the membrane and the earth. This provides an extra layer of protection, extending the life of the membrane. Horizontal or vertical insulation can also be added to the system for increased thermal efficiency to the building.

PRODUCTS:

The system encompasses a selection of the products below. Refer to standard specification P5100 or Masterspec work section 4131EB for full specification details.

COLPHENE BSW H	COLPHENE BSW V
COLPHENE 3000	SOPRADERE QUICK
Equus Peel and Stick Primer	ALSAN FLASHING QUADRO
Other Equus liquid applied detail membranes	Equus Termination Bar
Equus drainage layers	Equus XPS insulation
ALSAN MASTIC 2200 Sealant	SOPRASEAL Sealant
Equus Swellseal Waterstop	Aquafin CJ4 or CJ6 Waterstops

SPECIFICATIONS:

P5100 EQUUS SOPREMA COLPHENE BSW below-ground waterproofing system to concrete or masonry structures
Masterspec 4131EB EQUUS SOPREMA COLPHENE Tanking Membrane

CONDITIONS OF USE:

The product must be installed by a Certified Equus Applicator. Verification of their status can be confirmed by a current applicator certificate or by contacting Equus Industries. Any installation must be done in accordance with the latest specifications and technical documentation, or with written approval by Equus Industries Ltd.

BUILDING CODE COMPLIANCE:

B2 Durability - B2.3.1 (a), COLPHENE BSW has a durability of at least 50 years where used underground when installed with the correct specification, installation and maintenance. See BRANZ Appraisal 1037.

E2 External moisture - E2.3.2, E2.3.3, E2.3.7 Test data, together with in-service history in New Zealand and internationally, of the correctly installed COLPHENE BSW membrane over correctly designed and constructed substrates, show that the membrane successfully resists the ingress of moisture. See BRANZ Appraisal 1037.

F2 Hazardous building materials - F2.3.1 Well known experience with the type of materials used together with in-service history, show that COLPHENE BSW complies with this performance requirement. Refer to SDS at www.equus.nz

SUPPORTING DOCUMENTATION:

Title (Type)	Version	URL
BRANZ Appraisal No. 1037	22 April 2022	www.equus.nz/content/reports/branz-appraisal-colphene-1037.pdf

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WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
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MANUFACTURER CONTACT DETAILS:

Manufacture location	New Zealand
Legal and trading name of manufacturer	Equus Industries Ltd.
Manufacturer address for service	4 Sheffield Street, Blenheim 7274
Manufacturer website	www.equus.nz
Manufacturer email	info@equus.nz
Manufacturer phone number	03 578 0214
Manufacturer NZBN	9429032000306