

AquaSure

Hot-applied rubberised asphalt waterproofing membrane



Description

AquaSure is a hot-applied rubberised asphalt waterproofing membrane that cools down to form a flexible, strong, fully adhered and monolithic waterproofing membrane with extremely high durability and resilience.

Applications

AquaSure provides the perfect waterproofing membrane for the following applications:

- ▲ Roofs.
- ▲ Bridge decks and tunnels.
- ▲ Foundation and basement walls.
- ▲ Green roofs and planters.
- ▲ Plaza decks.

Advantages

- ▲ Self-healing properties for minor punctures.
- ▲ Fully bonded to the substrate eliminating any water migration beneath the membrane.
- ▲ Thick monolithic (joint-free) waterproofing membrane.
- ▲ Highly resistant to fertilisers, acids and numerous waste chemicals.
- ▲ Tough and flexible.
- ▲ Can be applied even if the substrate contains little irregularities or has hard to reach areas.

Standards

AquaSure was tested in accordance with CAN/CGSB-37.50.

Method of Use

Substrate preparation

Substrate should be free from laitance or any contamination such as oil, grease, dirt or traces of surface treatment products and release agents.

Concrete substrates should be cured a minimum of 14 days. Depending on conditions (i.e., ambient temperature, humidity) the concrete may be dry enough to receive application of the membrane in less than the 14 day minimum recommendation.

Surface Conditioning

- ▲ For concrete substrates, apply Bituproof 40S as a surface conditioner at a rate of 5 m²/ltr. Do not dilute Bituproof 40S with water before application.
- ▲ Wood, plywood, metal or gypsum board substrates do not need to be primed.

Application

Melt AquaSure in a double-jacketed melter at a temperature between 175°C and 200°C while mixing continuously.

Apply the first coat of AquaSure at 2.0 mm thickness, then apply the fabric-reinforcing sheet DonFlash H by firmly embedding it into the hot layer of AquaSure. Apply the second coat of AquaSure at a thickness of 3.0 mm.

Cover AquaSure membrane with a 2 mm thick DonFlex rubberised sheet reinforced with fibres, overlapping adjoining edges by 60 mm.

Cleaning

All equipment should be cleaned immediately after finishing using xylene, acetone or other suitable solvents.

Packaging

AquaSure is packaged in 15 kg blocks, one block per carton.

Coverage

Approximately 1.15 kg/m² per mm layer thickness.

Cautions

Health and Safety

Avoid inhalation of vapours and ensure adequate ventilation. Avoid contact with skin and eye. Gloves should be worn and the use of barrier cream is highly recommended.



Technical Properties	Requirments	Typical Results
Specific gravity:	-	1.15 ± 0.1
Solids content:	-	100%
Elongation: ASTM D5329	-	800%
Adhesion: ASTM D5329	-	No adhesion failure
Water permeability: DIN 1048 @ 5 bars, 2 mm	-	0 mm penetration
Flow @ 60°C: CGSB-37.50-M89	< 3 mm	0 mm (Pass)
Pinholing: CGSB-37.50-M89	No more than 1 pinhole	Zero pinholes (Pass)
Water absorption: CGSB-37.50-M89	< 0.35 g (gain)	0.24 g (Pass)
Low temperature flexibility (@ -25°C): CGSB-37.50-M89	No delamination, adhesion loss, or cracking	Pass
Water vapour permeance: CGSB-37.50-M89 ASTM E96	< 1.7 ng/Pa.s.m ²	Pass
Crack bridging: CGSB-37.50-M89	No evidence of cracking, splitting or loss of adhesion	Pass @ 23°C
VOC: ASTM D2369	-	11 g/l
Resistance to salt water: ASTM D1308	No blistering, deterioration delamination or re-emulsification	Pass
Resistance to fertilisers: ASTM D1308	No blistering, deterioration delamination or re-emulsification	Passed with 20:20:20 Fertiliser
Resistance to acid: ASTMD1308	No blistering, deterioration delamination or re-emulsification	Passed with 30% Nitric Acid

Fire

Ensure adequate ventilation. Do not use near a naked flame and do not smoke during use.

More from Don Construction Products

A wide range of construction chemicals products are manufactured by DCP which include:

- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

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Note:

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.

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08-0104-A-2021