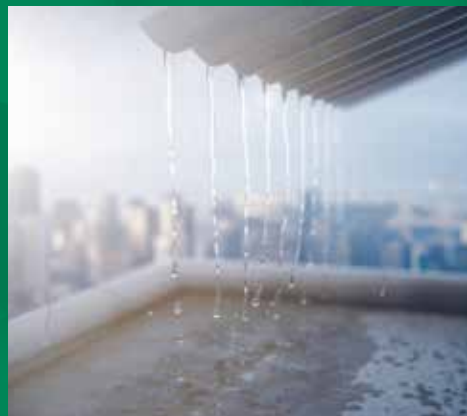




Raising the Standard of Waterproofing



Operations in Europe, Africa, Middle East and Asia, with 15 manufacturing locations and a distribution network to over 25 countries.

www.dcp-int.com



AquaSure Waterproofing with Confidence



expertise

quality

full range






Don Construction Products (DCP) has accumulated over 85 years of experience in developing, manufacturing and marketing innovative construction materials. DCP has operations in Europe, Africa, Middle East and Asia, with 15 manufacturing locations and a distribution network to over 25 countries.

DCP Timeline

- 1927 Company set up as Akis Chemicals Company Ltd., in Doncaster, UK.
- 1928 Company merged with Francois Chemicals Ltd.
- 1986 Management buyout and the company rebranded as Don Construction Chemicals.
- 1997 F. Ball and Co. Ltd., UK's leading manufacturer of flooring adhesives and floor preparation materials acquired Don Construction Chemicals and renamed the company as Don Construction Products (DCP).
- 2000 G.R.A.B. Resins of the UK, a 1995 F. Ball and Co. Ltd. acquisition, is integrated into DCP.
- 2005 DCP signed a license agreement with Ayla Construction Chemicals for the Middle East.
- 2010 DCP acquired Ayla Construction Chemicals in the Middle East.
- 2013 Backward integration into 2nd Generation Concrete Admixtures.
- 2014 Backward integration into 3rd and 4th Generation Concrete Admixtures.
- 2016 Backward integration into Polyurethane Polymerisation.

DCP Commitments

-  **Expertise** DCP provides exceptional level of expertise and support services both at the office and on site.
-  **Quality** All products are produced to comply with the best relevant international standards.
-  **Full Range** DCP offers a comprehensive range of products covering a wide range of civil and aesthetic requirements of construction projects.

Full Product Range

The focus of our full product range below caters to our 4 core business units: Concrete & Cement Technology, Underground Construction Technology, Construction Projects Materials Technology and Building Finishing Products.



Concrete Admixtures



Surface Treatments



Grouts & Anchors



Concrete Repair



Flooring Systems



Protective Coatings



Sealants & Joints



Waterproofing



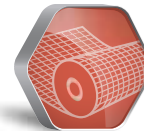
Adhesives



Tile Adhesives & Grouts



Building Finishing Products



Structural Strengthening

Hot-Applied Rubberised Asphalt Membranes

Waterproofing structures is critical to ensuring their longevity and durability because water infiltration can cause cosmetic and structural damage to a structure. Hot-applied rubberised asphalt membranes provide excellent waterproofing capabilities for structures. They were first developed in the United States in the early 1950s and attracted the elite architectural community due to their ease of application, self-healing characteristics and ability to eliminate water migration below the membrane.

Hot-applied rubberised asphalt membranes are made of a blend of select asphalt, rubber polymer and mineral stabilisers that work together to create a waterproofing product that is fully bonded with high adhesion strength which eliminates any chance for water to enter or leave a structure.

Since its development, it has been enhanced and its application on many projects has lasted over 50 years so far while maintaining its performance.



DCP developed **AquaSure**, a hot-applied rubberised asphalt product, which includes significant waterproofing characteristics and ensures your structure's durability and resilience.



AquaSure from DCP

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

In addition to these properties, AquaSure provides you with a membrane that is easily applied horizontally or vertically and maintained effortlessly throughout the course of its lifetime.

Advantages

Fully Bonded

AquaSure fully bonds to most substrates with extremely high adhesion strength. This property eliminates any water migration beneath the membrane, containing the water leakage and making it easier to locate the source of the leak.

Thick Finish

AquaSure is applied in high thicknesses enabling it to be used on substrates containing little irregularities and improving its crack bridging ability.

Soil Chemical Resistance

AquaSure is highly resistant to fertilisers and other chemicals found in soil, enabling it to be applied under planters and green roofs.

100% Solid Content

AquaSure contains no solvents or two-part systems to mix, eliminating on-site cure failures that may occur with other products.

Self-Healing

AquaSure provides self-healing properties that actively repair and restore minor punctures throughout its lifetime.

Quick Setting

AquaSure does not cure but cools down in place resulting in fast setup time speeding up the job for subsequent work.

Wide Service Temperature Range

AquaSure's excellent flexibility and adhesion properties are maintained in areas where service temperatures range from -25°C to 70°C.

Applications

AquaSure can be applied in multiple areas where outstanding waterproofing characteristics are essential:

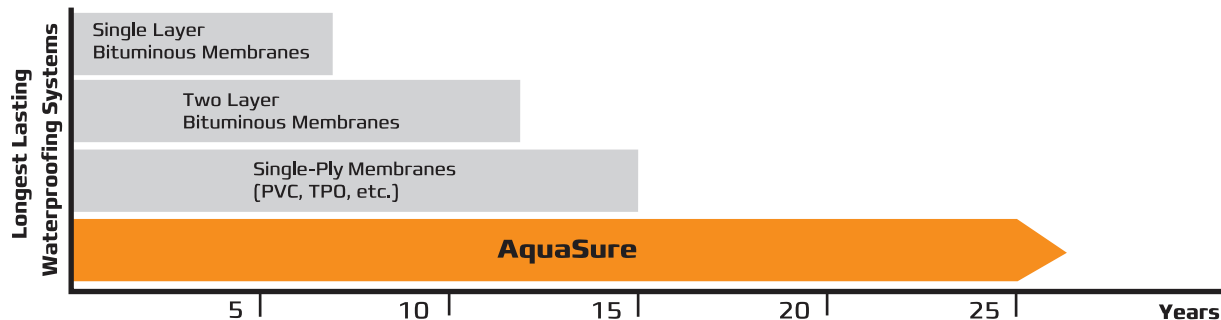
- Roofs
- Parking garages
- Bridges and tunnels
- Foundation and basement walls
- Green roofs and planters
- Plaza decks
- Metal roof decks



Benefits Over Other Methods

There are 6 major types of roofing systems used in the commercial roofing market place today. These 6 systems account for 95% of all commercial and industrial roofing systems. Common waterproofing applications include schools, hospitals, industrial facilities, and office and residential buildings.

The anticipated average service life of most waterproofing systems is 10 years, while **AquaSure's** approved systems guarantee a minimum of 25 years.



System Components

Surface Conditioner

Bituproof 40S: water based surface conditioner for concrete substrates.



Bituproof 40S

Reinforcement/Flashing

DonFlash H: a non-woven polyester fabric reinforcement placed between two layers of **AquaSure** to provide extra tensile strength and prevent cracks from affecting the membrane.



DonFlash H

DonFlash V: a fibreglass reinforcing mesh placed between two layers of **AquaSure** to provide extra tensile strength for vertical applications of **AquaSure**.



DonFlash V

DonFlash R: a rubber sheet used for flashing exposed walls, parapets, drains and penetrations, expansion joints and angle changes.



DonFlash R

Protection/Separation Layer

DonFlex: a reinforced rubberised protection sheet, 2 mm thick, for protecting **AquaSure Base System** against potential penetration or damage in roofing applications.



DonFlex

Plasti-board: a polypropylene based board, semi-flexible with high puncture resistance, designed for use as permanent protection for **AquaSure Underground System**.



Plasti-board

Geotex: a thick layer of non-woven polyester fabric that creates a separation layer between topping layers over **AquaSure Base System**.



Geotex

Drainage Membrane

Don Geodrain H/V: drainage membranes for horizontal (H) and vertical (V) applications.



H

V

AquaSure Base System Application



Surface Conditioner Application

Apply **Bituproof 40S** at a rate of 5 m²/litre to a clean and dry surface.



Membrane Preparation

Melt **AquaSure** in an approved melter at a temperature range of 175°C to 200°C.

Flashing

Flash **AquaSure** around curbs, parapets, penetrations, etc. with the **DonFlash** range of products.



Membrane Application

Apply **AquaSure** in two consecutive layers of 2 mm and 3 mm thicknesses, respectively, using a squeegee.

Fabric Reinforcement

Place **DonFlash H** between the two layers of **AquaSure** to provide a reinforced system.



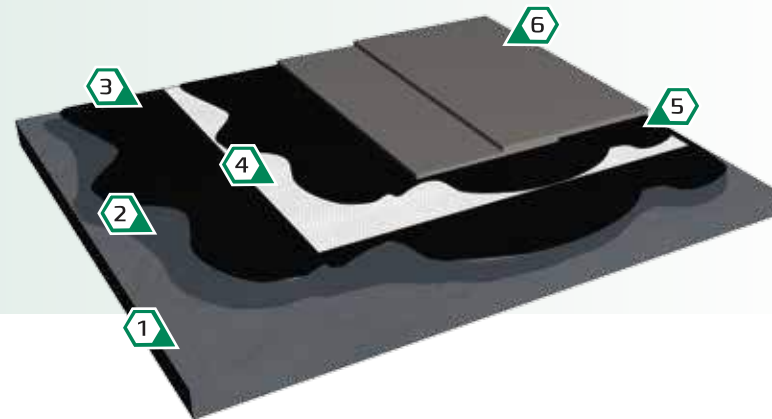
Protection Layer

Place **DonFlex** immediately over **AquaSure** as the final layer of **AquaSure Base System**, to protect the membrane against potential damage.



AquaSure Base System

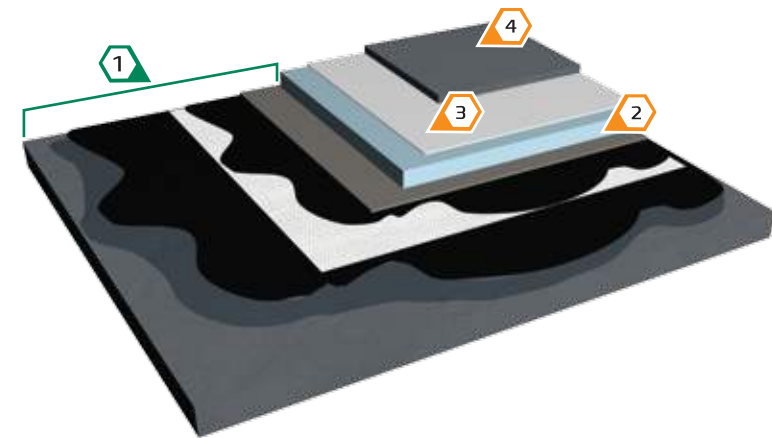
- 1- Approved substrate
- 2- Bituproof 40S surface conditioner
- 3- AquaSure (2 mm)
- 4- DonFlash H reinforcement
- 5- AquaSure (3 mm)
- 6- DonFlex protection layer



Topping Layers

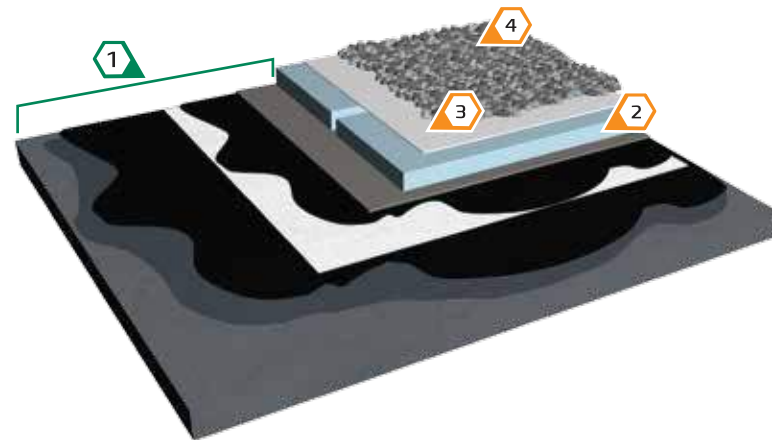
Concrete Overlay

- 1- AquaSure Base System
- 2- Extruded polystyrene insulation (optional)
- 3- Geotex
- 4- Concrete topping slab



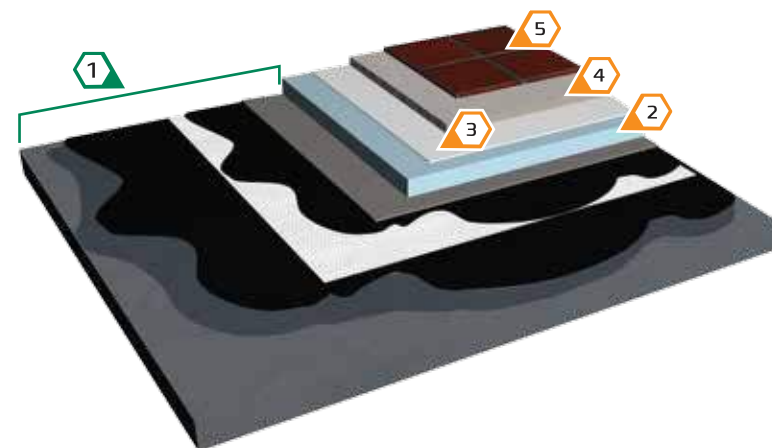
Gravel (PMR)

- 1- AquaSure Base System
- 2- Extruded polystyrene insulation (optional)
- 3- Geotex
- 4- Stone ballast



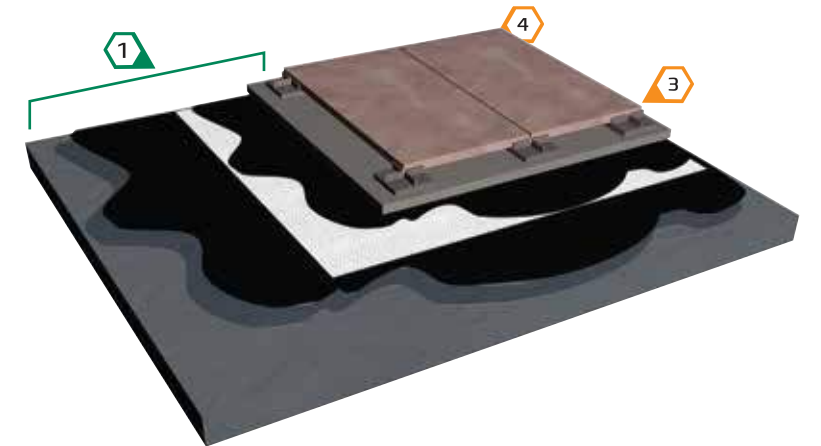
Tiling

- 1- AquaSure Base System
- 2- Extruded polystyrene insulation (optional)
- 3- Geotex
- 4- Sand cement mortar
- 5- Tiles



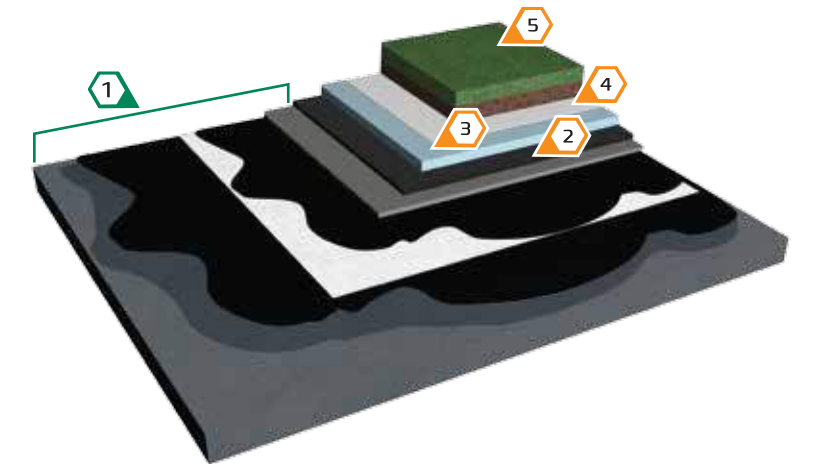
Pavers

- 1- AquaSure Base System
- 2- Extruded polystyrene insulation (optional)
- 3- Pedestals
- 4- Pavers



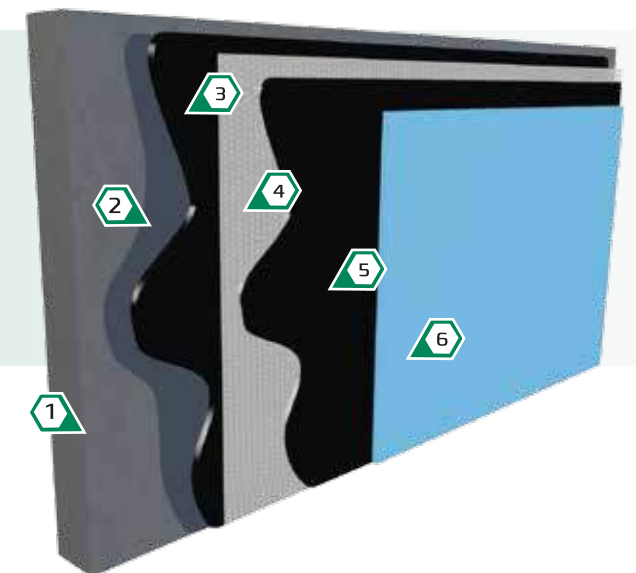
Planters

- 1- AquaSure Base System
- 2- Don Root Barrier
- 3- Extruded polystyrene insulation (optional)
- 4- Don Geodrain H
- 5- Soil



AquaSure Underground System

- 1- Approved substrate
- 2- Bituproof 40S surface conditioner
- 3- AquaSure (2 mm)
- 4- DonFlash V reinforcement
- 5- AquaSure (3 mm)
- 6- Plasti-board protection





LEED®

LEED® stands for Leadership in Energy and Environmental Design. It is an internationally recognized program, developed by the US Green Building Council (USGBC).

LEED® is intended to provide building owners and operators with a concise framework for identifying and implementing practical and measurable green design, construction, operations and maintenance solutions.



As AquaSure is the foundation for different assemblies of waterproofing, it can assist the project in the following LEED® credits:

AquaSure Contribution in LEED® V4		Points
Material Resources	sourcing of raw materials	1 - 2
	material ingredients	1 - 2
Environmental Quality	low-emitting material	1 - 3
Sustainable Site (For Green Roofs & Vegetation Requirements)	protect habitat	1 - 2
	open spaces	1
	rainwater management	2 - 3
	heat island reduction	1 - 2
Potential LEED® credits up to 14 points		

Warranty

AquaSure assures peace of mind for the client, contractor, specifier and end user regarding its performance and durability. DCP guarantees that AquaSure provides the perfect waterproofing solution for different applications meeting the benefits detailed in this brochure. Confident in our product, DCP offers a minimum 25-year warranty on AquaSure.



DCP is dedicated to providing unparalleled customer service and support throughout every stage of the construction process. The DCP team works hand-in-hand with all parties to ensure the completion of the project with the utmost consideration and quality control.

DCP offices all over the world have local sales and technical service teams ready to assist you. Our research and development centres work continuously to ensure we are using the latest technology to deliver the best quality of products and services to consumers. DCP offers:

- Properly equipped laboratories in every country to serve clients.
- Testing and evaluation carried out in each country to ensure quality of products.



- Technical site support.
- Understanding all business units from the client's point of view.
- Continuous training programs to expand staff and customer knowledge.

