

Duo 4.3 mm Slates/Foil



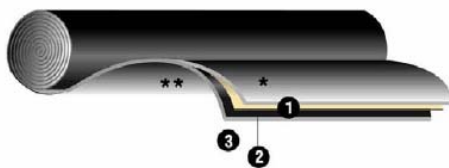
Technical approvals: BBA nr. 98/3537/C, BUTgb, ATG 1924, CTG 056

Basic Uses:

For waterproofing of different locations including concrete and plywood flat roofs, podium decks, balconies and terraces. For exposed and protected areas in your building. The Duo range also includes waterproofing for roof gardens, parking decks, bridges, tunnels and underground applications like basements.

System:

Pre-formed torch-on membrane manufactured in the De Boer ISO 9001 controlled factory in Antwerp, Belgium. For special roof conditions the membrane can be mechanically fastened to the roof, or attached with cold glue. A vented layer can also be delivered in a one-sheet system. (see DUO AERO) All materials can be delivered with a certificate of origin.



- * Upper finishing: coloured slates
- 1. Upper coating in APAO modified bitumen.
- 2. Composition armature consisting of polyester and glass reinforcement.
- 3. Under coating in SBS modified bitumen
- ** Under finishing: polyethylene foil

Composition:

Duo 4.3 Slates/Foil is a flexible torch-on waterproof membrane. The upper coating consists of a mixture of penetration bitumen modified with Amorphous Poly-Alpha-Olefin (APAO). The under coating consists of a mixture of penetration bitumen modified with Styrene-Butadiene-Styrene (SBS). This membrane is reinforced with a thermally bonded layer of non-woven polyester of min. 175g/m², reinforced with a glass fibre mesh of 8g/m². The upper surface is finished with coloured slates, pressed mechanically into the bitumen. The under surface is finished with a polyethylene foil.

Warranty

The client will receive a combined warranty on product and installation from the specialist applicator and manufacturer. The product warranty may be insurance backed by AG-FORTIS under policy number 99.075.400

Advantages:

- ◆ High-tech quality waterproofing membrane especially designed for different climate areas.
- ◆ The product is UV-resistant and remains tough in high temperature conditions.
- ◆ Duo remains flexible in colder temperatures and is easy to work with.
- ◆ The membrane delivers a strong and flexible waterproofing system for your building investment, with a life expectation of at least 20 years. (BBA page 4, 13.1)

Surface Preparation:

- ◆ All surfaces need to be cured and dry before application.
- ◆ Surfaces need to be smooth and clean, free of oil and grease.
- ◆ All necessary details like skylights, drains and down-pipes need to be addressed before the laying of waterproofing membrane starts.
- ◆ Co-ordination with specialist applicator concerning these details is important.

Method Statement: Torch-on Application

The prepared substrate receives Duo Primer, a solvent based, bitumen primer. When the primer is dry, Duo membrane is torched fully-bonded to the substrate commencing from the lowest level (e.g. the drain). The membrane is cut to shape by means of a knife. The bitumen lines are covered by coloured slates, that are mechanically pressed into the hot bitumen. This delivers an aesthetic finish. Specialist tools like membrane trowel, overlap-torch and overlap roller may be required in some conditions to ensure a perfect finish. The Duo system can only be installed by trained DUO applicators, who hold Equus Certified Applicator status.

When Duo is used in 2 layer work, as on plywood, the first layer (base sheet) is either Deboplast 2.5 T/F (APP) or Debovix 2.5 T/F (SBS) depending on site requirements

Packaging:

Roll size:	1x8 m
Roll weight:	+/- 38.4 kg
Number of rolls on a pallet:	23



Technical Data:**Physical properties**

Total thickness

Reinforcement

Ring & Ball

Coating penetration at 60°C

Tensile strength (N/50mm)

Elongation

Puncture resistance

Max. load membrane penetration

Water vapour permeability

Cold flexibility

UV resistance

Average values

4.3 mm

Non-woven polyester of min. 175 g/m²,
reinforced with a glass fibre mesh of 8 g/m²

APAO: 155°C - SBS: 120°C

APAO: 53 dmm

Longitudinal: 1101 - Transversal: 702

Longitudinal: 65% - Transversal: >55%

Ø 10 mm

250 N

0,118 g/m 24 hours

APAO -20°C / SBS -25°C

100%

Test methods

UEATC A, BDA PO1, BBA

UEATC A, BBA PO1

ASTM D 36-84, NBN T52-031, UEATC G

MOAT 30:6M

ASTM D 412, NBN B46-201, MOAT 30:6C,
UEATC C

ASTM D 412, MOAT 30:6C

SP 2190

SP 2190

BS 3177

ASTM D146, BDA PO6

ASTM 653-77, BDA P14

Health & Safety:

Duo Bitumen Primer is solvent-based and must be used with adequate ventilation. Remove all naked flames and sources of ignition. Adequate ventilation is required to minimise exposure to bitumen fumes during the torching process. Material Safety Data Sheet (MSDS) must be read and understood prior to use of product.

Storage:

Duo rolls should be stored in a dry area, always in an upright (vertical) position. Do not lay rolls flat (horizontal) when storing.

Other Duo Products:**Name**

Duo 4.3 AERO

Duo 4.3 MECANO

Duo 4.3 NO FLAME

Duo 4.3 BRIDGES & TUNNELS

Duo 4.3 FIRECARE

Duo 4.3 LANDSCAPE

Benefits

One layer self venting waterproofing system.

Mechanical fastening system.

For safe installations without fire. Cold glue applied.

For areas with hot asphalt topping. (e.g. car park deck)

Fire retarding waterproofing system.

Anti-root system for landscape areas, roof-gardens.

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Edition 1
July 2006