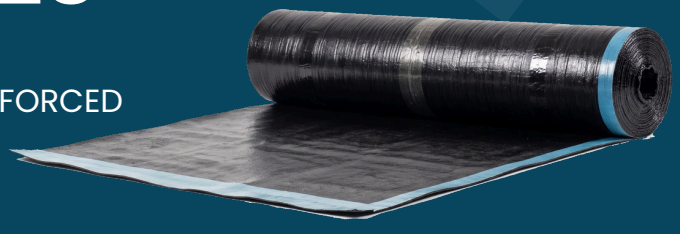
UNIPROOF SA-15

COLD-APPLIED SELF-ADHESIVE SBS BITUMEN WATERPROOFING MEMBRANE, POLYESTER REINFORCED



Product Features

UNIPROOF SA-15 is a 1.5 mm cold-applied, self-adhesive waterproofing membrane made from SBS-modified bitumen reinforced with polyester. The top surface is protected by a polymer film and the underside by an anti-adhesion release film, which is peeled off as the membrane is laid.

As it is applied without gas or flame, **UNIPROOF SA-15** can be used where torch-on membranes are not permitted, including over extruded or expanded polystyrene insulation and timber substrates. The polyester reinforcement gives the membrane additional strength and dimensional stability.

UNIPROOF SA-15 is used to waterproof foundations, basements and engineering structures, as an underlay on pitched roofs and as a vapour barrier. It is not designed for permanent exposure to sunlight and must be covered by a protection layer, screed or finish after installation.

Advantages

Polyester-reinforced for added strength	Cold-applied, no gas or flame
Safe over XPS, EPS and timber	Fast, simple installation
No smoke, odour or noise	No special equipment or skills
Self-adhesive bonded laps	Flexible down to -20 °C

Fields of Application

Basement Walls & Slabs	Foundations, Footings & Pile Caps
Retaining Walls & Engineering Structures	Podium & Roof Decks (under screed)
Balconies & Wet Areas (under screed / tiles)	Sunken Slabs
Underlay on Pitched Roofs	Vapour Barrier over Insulation / Timber

Health & Safety

UNIPROOF SA-15 is applied cold, without gas or flame. Wear gloves and protective clothing when handling. **UNICOAT BITUMEN 305** primer is solvent based and flammable: use it only in well-ventilated areas away from naked flames, and avoid contact with skin and eyes. Refer to the MSDS of the membrane and primer before use.

Shelf Life & Storage

Store rolls upright in their original packaging in a cool, dry, shaded area, away from direct sunlight, heat and sources of ignition. Do not stack pallets. When stored as recommended, **UNIPROOF SA-15** has a shelf life of 12 months from the date of manufacture.

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Technical Properties

Property	Test Method	Result
Thickness	EN 1849-1	1.5 ± 0.20 mm
Mass per Unit Area	EN 1849-1	1.8 ± 0.20 kg/m²
Length x Width	EN 1848-1	20 m x 1 m
Softening Point	ASTM D36	≥ 100 °C
Flexibility at Low Temperature	EN 1109-1	≤ -20 °C
Flow Resistance at Elevated Temperature	EN 1110	≥ 90 °C
Elongation (Long / Trans)	ASTM D5147	35 ± 20 / 45 ± 20 %
Tensile Strength (Long / Trans)	ASTM D5147	400 ± 100 / 300 ± 100 N/50 mm
Peel Resistance of Joints (Overlap to Overlap)	EN 12316-1	≥ 40 N/50 mm
Peel Resistance of Joints (Overlap to Film)	EN 12316-1	≥ 20 N/50 mm

All values are typical results given as a guide only and not as a specification.

Physical Properties

Material	:	Self-adhesive SBS-modified bitumen compound
Reinforcement	:	Polyester
Top Surface	:	Polymer film
Bottom Surface	:	Anti-adhesion release film
Colour	:	Black
Thickness	:	1.5 mm
Roll Size	:	20 m x 1 m (20 m² / roll)
Mass per Roll	:	Approx. 36 kg

Important Note

UNIPROOF SA-15 is not UV stable. Cover it with a protection layer, screed or finish as soon as practical after installation.

Do not torch or heat the membrane. Do not use solvent-based products, other than the recommended primer, in direct contact with it.

Not suitable as an exposed or trafficked finished surface.

This technical data sheet is given in good faith and does not guarantee the application work. All Unity Reliance technical data sheets & method statements are updated on a regular basis and can be subject to change without notice. It is the user's responsibility to obtain the latest version of the information required.

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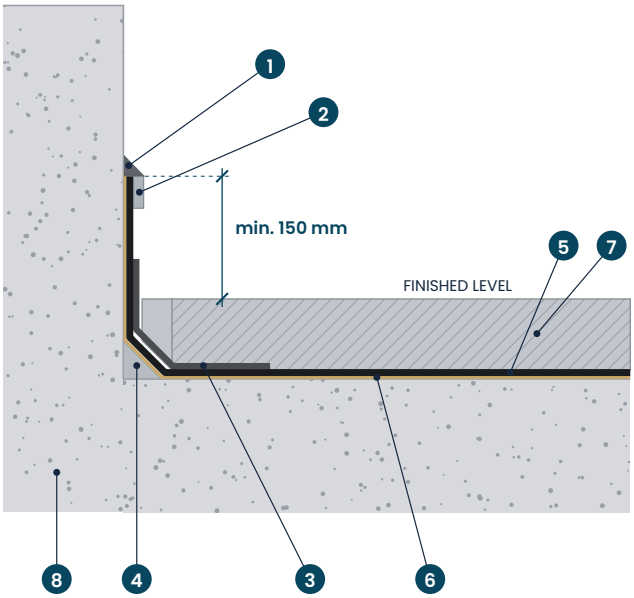
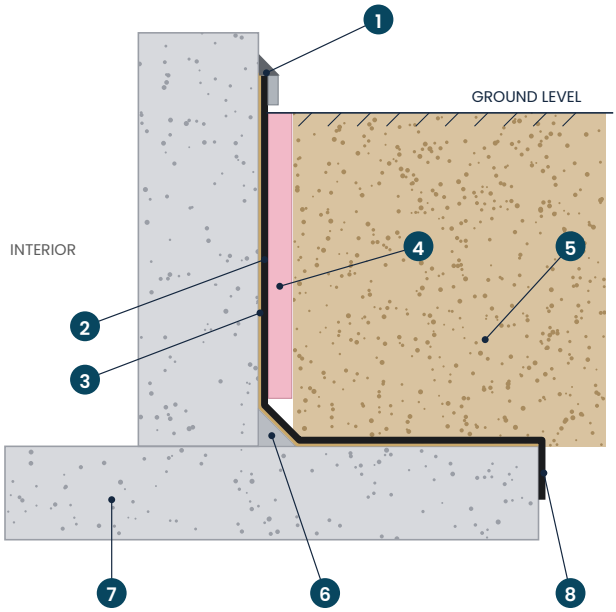
Typical Drawing

DETAIL A : ROOF / PODIUM DECK UPSTAND



1. **UNISEAL®** sealant
2. Aluminium termination bar
3. Reinforcing strip of membrane at corner
4. Angle fillet (approx. 50 mm)
5. **UNIPROOF SA-15** membrane
6. **UNICOAT BITUMEN 305** primer
7. Protection screed
8. Concrete slab / upstand

DETAIL B : BASEMENT WALL (BELOW GRADE)



1. Termination bar & **UNISEAL®** sealant
2. **UNIPROOF SA-15** membrane
3. **UNICOAT BITUMEN 305** primer
4. **UNIFLEX® XPS** protection board
5. Compacted backfill
6. Angle fillet (approx. 50 mm)
7. Concrete wall & base slab
8. Membrane lapped onto base slab edge

For illustration purposes only. Not to scale. Details to be confirmed by the project engineer.

System Components

Item	Purpose
UNIPROOF SA-15	Self-adhesive waterproofing membrane
UNICOAT BITUMEN 305	Bituminous primer for concrete and masonry substrates
UNISEAL® sealant	Sealing of top terminations and penetrations
Termination bar	Aluminium bar to secure vertical membrane edges
UNIFLEX® XPS / UNIFLEX® PE	Protection board before backfilling
Hand roller / pressure roller	Bonding of laps and full membrane contact

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Installation Procedures

1 Surface Preparation | 2 Priming | 3 Membrane Application | 4 Inspection & Protection

Installation Procedures

Step 1

SURFACE PREPARATION

Substrates must be structurally sound, clean, dry and free from dust, grease, laitance, curing compounds and loose particles. New concrete must be fully cured.

Remove sharp protrusions and repair cracks, voids and honeycombing with a suitable repair mortar. Form an angle fillet of approx. 50 mm at internal corners between slab and wall.

Apply only when the substrate and air temperature are above +5 °C. Do not apply in rain or on damp surfaces.

Step 2

PRIMING

Apply **UNICOAT BITUMEN 305** primer evenly by brush, roller or spray at the rate given in its technical data sheet.

Allow the primer to dry completely before laying the membrane. Prime only the area that can be covered with membrane on the same day.

Step 3

MEMBRANE APPLICATION

Cut and dry-lay the membrane to check alignment and lap positions. Start from the lowest point, such as drains or the base of the slab, so that laps always shed water.

Peel back the release film progressively and press the membrane onto the primed surface, smoothing from the centre outwards to expel trapped air. Roll the whole membrane firmly with a hand or pressure roller.

Provide side laps of at least 50 mm and end laps of at least 100 mm, and stagger end laps between adjacent rolls. Roll all laps firmly to achieve a continuous, watertight bond.

On vertical surfaces, extend the membrane at least 150 mm above finished floor level and secure the top edge with an aluminium termination bar sealed with **UNISEAL®** sealant. Reinforce corners, drains and pipe penetrations with an additional strip or collar of membrane.

Step 4

INSPECTION & PROTECTION

Inspect all laps and details. Repair any damage with a patch of membrane extending at least 150 mm beyond the damaged area. Where specified, carry out a flood test before covering.

Protect the membrane before backfilling or screeding. Use **UNIFLEX® XPS** or **UNIFLEX® PE** protection board on vertical surfaces, and a protection screed on horizontal surfaces. Lay protection boards loose without fixing through the membrane.

Cover the membrane as soon as practical. Do not leave it exposed to sunlight for extended periods.

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No.135B, Jalan Kip 8,
Kawasan Perindustrian Kepong
52200 Kuala Lumpur

(+60) 3-6734 7941
(+60) 10-785 1159

enquiry@unityreliance.com
https://www.unityreliance.com

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