UNIFLEX® PE SLIP MEMBRANE



Product Features

UNIFLEX® PE SLIP MEMBRANE is a pre-formed polyethylene strip designed for use in sliding joints in reinforced concrete structures where load bearing characteristics are present, and low friction resistance is required.

UNIFLEX® PE SLIP MEMBRANE can be used under in-situ or precast concrete slabs and beams, structural steelwork bearing plates and pipe supports to form a thin sliding joint. It is resistant to most chemicals, solvents and weathering.

Two layers of **UNIFLEX® PE SLIP MEMBRANE** can also be used for sliding wall joints, pre-stressed, post-tensioned circular concrete tanks or similar structures provided the safe load bearing capacity is not exceeded.

Advantages

Ideal, General Purpose Slip Membrane	High Bearing Capacity
Low Cost, Permanent Solution	Easy To Install
Low Coefficient Of Friction	Non-Toxic

Fields of Application

It can be shaped, cut, or laminated for use in a variety of applications including :

Roof Joints	Slabs & Beams On Bearings
Wall Joints	Pipe Supports
Steel Connections	Circular Tanks (Sliding Wall Joints)

Compatible Products

UNISTICK® CA contact adhesive, to bond the membrane layers
UNIFLEX® PE filler board and UNISEAL® joint sealant at the upstand

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UNIFLEX® PE SLIP MEMBRANE

Technical Properties

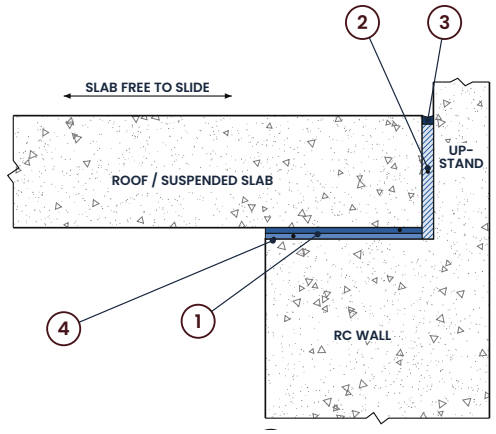
Property	Test Method	Unit Measurement	Result
Density	ISO 845	kg/m³	160 - 200
Tensile Strength	ISO 1798	kPa	837
Elongation at Break	ISO 1798	%	98
Tear Strength	ISO 8067	N/cm	9.2
Compression Set (23°C / 50% RH)	ISO 1856	%	17
Static Coefficient of Friction	BS EN ISO 8295	-	0.140
Dynamic Coefficient of Friction	BS EN ISO 8295	-	0.120

Physical Properties

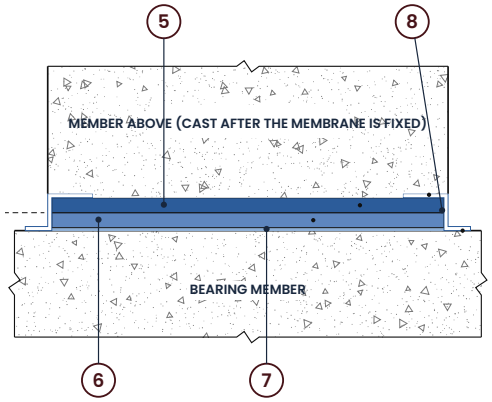
Material	:	High Density Closed Cell Polyethylene (PE)
Color	:	Black
Size	:	300mm (width) x 2m (length) strips
Thickness	:	2mm
Packing	:	25 strips / roll (50m per roll)

Typical Drawing

1 SLAB ON WALL LEDGE — Not to scale



2 SLIP MEMBRANE ENVELOPE (ENLARGED) — Not to scale



LEGEND

1. Slip membrane, 2 layers, taped
2. UNIFLEX® PE fillerboard
3. UNISEAL® joint sealant
4. Steel-float finished bearing
5. Slip membrane, layer 2
6. Slip membrane, layer 1
7. UNISTICK® CA adhesive
8. Adhesive tape on edges

Illustrations only – not for construction. Refer to drawing UR-FL-03.

This technical data sheet is given in good faith and does not guarantee the application work.
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UNIFLEX® PE SLIP MEMBRANE

Installation Procedures

1 Surface Preparation | 2 Forming the Envelope | 3 Bonding & Concreting

Step 1
SURFACE PREPARATION

Concrete bearing surfaces for **UNIFLEX® PE SLIP MEMBRANE** must be clean, smooth, dry and free of contaminants, with a steel-float finish.

Step 2
FORMING THE ENVELOPE

UNIFLEX® PE SLIP MEMBRANE is normally laid in two layers to give a low-friction sliding interface. Before concreting, form the required width into a sealed envelope: seal all edges and joints with adhesive tape so that concrete grout and fines cannot get between the layers.

Stagger the joints between the two layers wherever possible. For circular structures, form the membrane in short chord lengths with staggered joints.

Step 3
BONDING & CONCRETING

To hold the membrane on the bearing surface before the concrete is placed, apply **UNISTICK® CA** to the bearing surface and to one side of the membrane. When the adhesive is touch-dry, position the membrane carefully and roll it thoroughly for full contact.

Cast the member above onto the membrane.

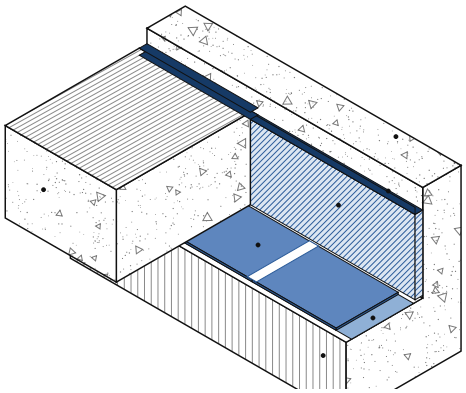
Storage

UNIFLEX® PE SLIP MEMBRANE is a plastic product and keeps for a long time. Store it under cover, in a dry place away from direct sunlight, heat and sources of ignition.

Health & Safety

UNIFLEX® PE SLIP MEMBRANE presents no health hazard in normal handling and use. Wear gloves when cutting, and follow normal site safety practice.

3D VIEW - SLAB ON WALL LEDGE NOT TO SCALE



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