UNIPROOF DPM

DAMP PROOF MEMBRANE POLYETHYLENE SHEET



Product Features

UNIPROOF DPM is a polyethylene damp proof membrane laid under ground-floor slabs and foundations as a vapour and moisture barrier. It stops ground moisture from rising into the slab, protecting floor finishes and reducing the risk of mould and damp.

It is available in three grades: **UNIPROOF DPM** (standard, recycled LDPE) for general slab and site use, **UNIPROOF DPM HD** (heavy duty, 0.5 mm and above) for demanding sub-bases, and **UNIPROOF DPM VG** (virgin-grade polyethylene) where a clean, consistent film and colour options are required.

The sheet can also be laid over fresh concrete to retain moisture during curing.

Advantages

Superior Vapour & Moisture Protection	All-Weather Protection
Mould & Fungus Barrier	Eco-Friendly Recyclable Material
Concrete Curing & Crack Control	High Chemical Resistance
Debris, Stain & Impact Resistance	Tear & Puncture Resistance

Fields of Application

- Ground Floor Screed & Flooring Protection
- Concrete Curing & Surface Protection
- Temporary Weather Protection Enclosures
- Temporary Glazing & Openings Protection
- On-Site Equipment & Material Covers

Polyethylene is not recommended for contact with aromatic or chlorinated solvents, petroleum products or strong oxidising acids. Consult Unity Reliance before use on contaminated ground.

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Technical Properties

UNIPROOF DPM (Standard)	Test Method	Result
Grab Strength	ASTM D4632	> 130 N
Elongation at Break	ASTM D4632	> 40 %
Puncture Resistance	ASTM D4833	> 40 N

UNIPROOF DPM HD (Heavy Duty)	Test Method	Result
Tensile Strength, MD	ASTM D412	> 20 MPa
Tensile Strength, TD	ASTM D412	> 20 MPa
Elongation at Break, MD	ASTM D412	> 850 %
Elongation at Break, TD	ASTM D412	> 900 %

UNIPROOF DPM VG (Virgin Grade)	Test Method	Result
Tensile Strength, MD	ASTM D882	11.70 MPa min
Tensile Strength, TD	ASTM D882	8.30 MPa min
Elongation at Break, MD	ASTM D882	350 % min
Elongation at Break, TD	ASTM D882	400 % min
Dart Drop Impact	ASTM D1709	1000 g min

MD = machine direction, TD = transverse direction.

Physical Properties

Property	DPM	DPM HD	DPM VG
Material	Recycled LDPE	Recycled LDPE	Virgin-grade PE
Colour	Milky white	Milky white	Plain / Blue / Black / Orange
Roll Size	12 ft x 180 ft	2 m x 25 m	12 ft x 180 ft
Thickness	0.125 - 0.30 mm	0.5 mm & above	0.125 - 0.5 mm
Weight	By thickness	By thickness	By thickness

Other thicknesses, sizes and colours are available on request.

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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Installation Procedures

1 Preparation | 2 Application

Step 1
PREPARATION

Prepare the sub-base so that it is level, well compacted and free from sharp stones, projections and standing water. A layer of sand blinding or lean concrete is recommended to protect the membrane.

Step 2
APPLICATION

Unroll **UNIPROOF DPM** over the prepared surface, taking care not to stretch or puncture the sheet. Overlap adjacent sheets by not less than 150 mm and seal all laps with a suitable jointing tape.

Turn the membrane up at the edges and around penetrations to above the finished slab level, and seal it to ensure continuity. Repair any tears or punctures immediately with a patch of the same membrane, overlapping the damage by at least 150 mm on all sides and taped on all edges.

Take care when placing reinforcement, using suitable spacers so that the membrane is not damaged. Place the concrete as soon as possible after laying to avoid damage to the sheet.

Shelf Life & Storage

Store **UNIPROOF DPM** rolls in their original packaging in a dry, covered area, away from direct sunlight, heat, sharp objects and chemicals. Store rolls horizontally on a flat surface and do not stack heavy loads on them.

Health & Safety

UNIPROOF DPM presents no health hazard in normal handling and use. The sheet is slippery when wet, so take care when walking on it, and keep it away from open flames and sources of ignition.

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