IKO Hyload Universal DPM

Technical Data Sheet – Section 1.20

PRODUCT DESCRIPTION

IKO Hyload Universal Damp Proof Membrane is a flexible polyethylene sheet material which can be used for damp proofing at or above ground level in instances that are not subject to hydrostatic pressure.

The product is primarily specified for use within floor constructions, such as ground bearing concrete slabs, beam and block floors, and structural suspended floor slabs.

Gauge	Product Code
300 Micron (1200g)	30833500
500 Micron (2000g)	30833510

USE

IKO Hyload Universal DPM is used for damp proofing at or above ground level in instances that are not subject to hydrostatic pressure.

INDEPENDENT ACCREDITATION

CE

EN 13967:2012

The product carries a Declaration of Performance Certificate and is assessed under the above Harmonised Standard.

FEATURES & BENEFITS

Tried & Tested - deemed suitable for use in line with current Building Regulations, this product type has been specified for use as a damp proofing material since 1973.

Ease of Use - the product does not require special skills to install.

Specification - the product is available as a 1200 gauge or 2000 gauge membrane.

Developed Components – as part of the IKO Hyload brand, the product has a full range of system components.

PERFORMANCE & COMPOSITION

Composition:	Recycled LDPE
Form:	Roll
Colour:	Black
Nominal Thickness:	300micron/500micron
Roll Length:	25m/12.5m
Roll Width:	4m
Water tightness 2kPa (EN 1928):	Pass
Reaction to fire:	F
Resistance to Static Loading:	Soft - Pass
	Hard - Pass
Heat ageing	Pass
Alkali	Pass
Water tightness:	Pass

SPECIFICATION

NBS Clauses can be made available for Common Arrangement Work Sections:

J40 – Flexible Sheet Waterproofing/Damp Proofing

All construction detailing and specification should conform to UK Building Regulations, relevant Codes of Practice and British Standards. In particular it is recommended that reference is made to the relevant parts of:

The Building Regulations 2000, Approved Document C - Sections 4 and 5;
CP 102:1973 Code of Practice – Protection of buildings against water from the ground
BS 8000-4:1989 Code of Practice for waterproofing

Where required by building warranty providers i.e. NHBC, LABC, etc. installers and those undertaking specifications should seek guidance from Technical Standards as issued by the provider in addition to the above.

SYSTEM COMPONENTS

IKO have a range of essential system components, specifically tailored for use with Hyload Universal Damp Proofing Membrane.

The following represents the system components available as part of that range:

- IKO Hyload Jointing Tape No2 – is a black, double sided butyl mastic tape in 50mm x 10m rolls for bonding damp proof membranes at overlaps and bonding damp proof membranes to IKO Hyload damp proof courses at junctions with internal and external walls.

- IKO Hyload Jointing Tape No3 – is a single sided PVC tape in 75mm x 33m rolls for securing overlap detailing at the free edge and is essential to ensure robustness at joints.

- IKO Hyload 3mm Protection Board – is a 3mm thick, flexible, load bearing and rot proof polymeric board. Used for the protection of membranes against damage from backfill operations, foot traffic or the process of positioning spacers and reinforcement prior to laying a reinforced concrete slab.

- IKO Hyload Pre-formed Cloak Units – covering all aspects of detailing from stop ends to complex and awkward interface detailing, IKO Hyload Pre-formed cloak units reduce on site detailing work to a rapid position and fix operation, whilst providing consistent quality of work throughout.

Ultrasonic welding technology allows the semi-rigid polymeric cloak material to be formed into a vast number of profiles and shapes:

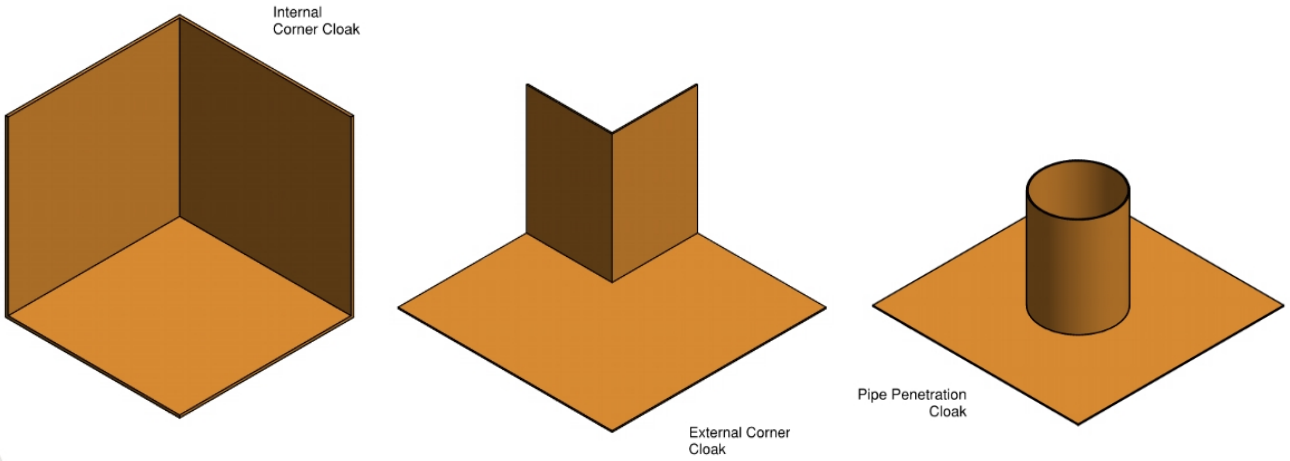

Figure 1 – IKO Hyload Pre-formed Cloak Units

SITE STORAGE

General

Damp proof membrane materials and any products ancillary to the system should be stored in the dry, under cover, and protected against damage.
Materials should be kept away from direct sources of heat.

24 Hours Prior To Work

Store a sufficient quantity of the adhesive tapes for the next day's use in a warm place prior to use. This will ensure the desired performance is achieved i.e. good flexibility and adhesion.

Immediately Prior To Work

Storage of the product at the place of work should be no less satisfactory than that experienced within the main storage areas to prevent damage immediately before use i.e. flat, dry and clean.

CONSTRUCTION

For situations covering damp proofing at or above ground level IKO Hyload Universal Damp Proof Membrane can be used as both loose laid damp-proof membrane within the floor and as an effective AVCL within other construction fabric i.e. stud walls; ceilings.

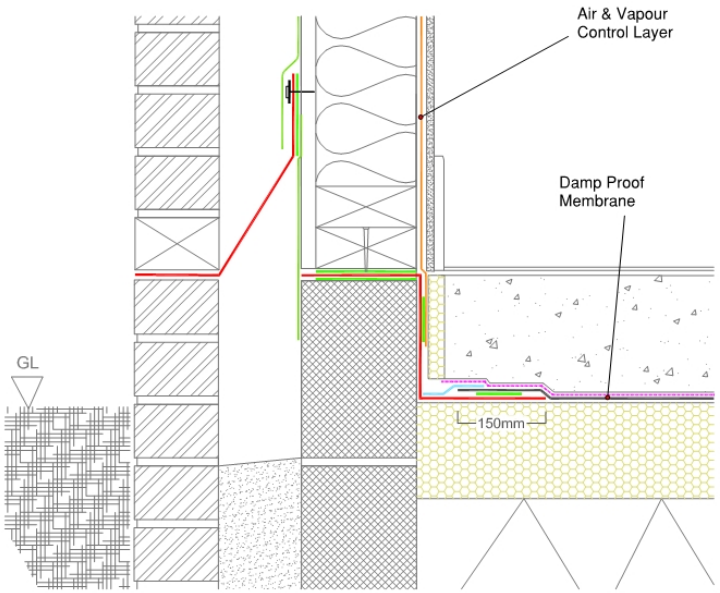

Figure 2 – Damp Proofing Applications

Surface Preparation

All surfaces should be clean, dry and free from contaminants with any sharp protrusions or low points suitably rectified.
Installation may take place over compacted sand blinded graded stone sub base, sub-structure insulation or concrete substrates.
Floated concrete should sufficiently smooth, with surfaces subject to tamping operation having undulations no greater than 5mm.
Pre-cast beam and block or concrete plank systems must ensure that undulations and voids are addressed to achieve the above surface requirements. Guidance on how to undertake such work should be addressed by the system provider.

Application

Overlaps

IKO recommends that all laps are a minimum 150mm wide and sealed with Hyload Jointing Tape No.2 and IKO Hyload Jointing Tape No.3.

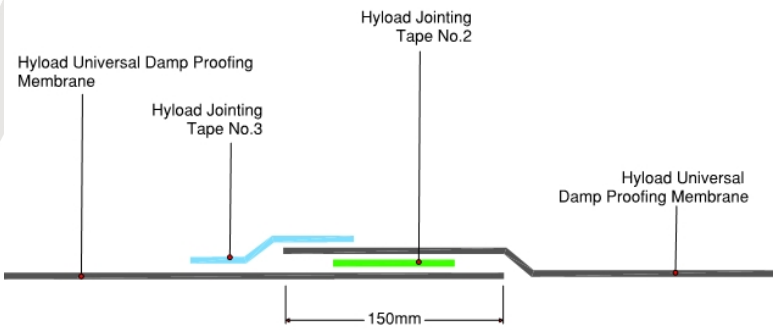

Figure 3 – Formation of Sealed Overlaps

Alternatively, a double welted fold may be formed using at least 300mm of the membrane as illustrated within BS8000-4:1989. It is essential that any welted folds are sufficiently weighted prior to placing concrete.
At perimeters where the membrane is sealed to a DPC, reinforcing strip or other specified material, minimum laps should be achieved as stated within Figure 4.

Horizontal Application
Working within the footprint of the floor area to be covered, the membrane should be unrolled and cut to the appropriate length. Once cut, proceed to unfold the membrane to its full extent, position and trim to the required footprint.
The damp proof membrane should be continuous with the damp proof courses, with joints with the DPC formed in accordance Figure 4.
Care should be taken at positions of detailing such as corners, door jambs and obstructions. IKO recommends the use of IKO Hyload Pre-formed Cloaks in instances where detailing cannot be effectively site formed.

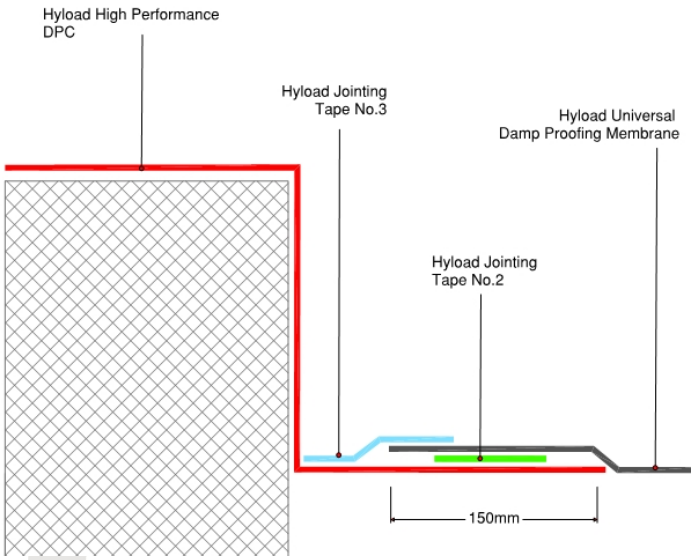

Figure 4 – Formation of Sealed Overlap with Perimeter DPC

The completed installation should be inspected prior to any covering work, ensuring that the membrane is not damaged, stretched or displaced. In the event of damage to the membrane, the area must be sealed using a patch of the same material; minimum 150mm larger all around the damaged area. The patch to be bonded using IKO Hyload Jointing Tape No2 and sealed with IKO Hyload Jointing Tape No3 all around its perimeter.

The completed installation should be covered with permanent overlying construction i.e. insulation, concrete, as soon as possible after satisfactory inspection.

In instances where the membrane will be subjected to foot traffic or the overlying construction is a structural slab requiring reinforcement, a 3mm IKO Hyload Protection Board should be utilised to mitigate the risk of puncture.

DURABILITY

When subject to the normal conditions of use, the membrane will provide an effective barrier to the transmission of liquid water and water vapour for the life of the fabric into which it is installed.
Membranes should not be subjected to long periods of exposure to ultraviolet light and covered with follow on fabric as soon as practicable.

OTHER RELEVENT DOCUMENTATION

Where applicable, Material Safety Data Sheets (MSDS), Declaration of Performances (DoPs), and Third-Party Accreditations are available to view and download from the IKO website Resource Centre:
https://ikogroup.co.uk/resource-centre/

PRODUCT SUPPORT

Should you have any queries in relation to this product please contact one of the relevant teams below:

Technical technical.ab@iko.com
- For Reinforced Bitumen Membranes, IKOpro and Flexia Liquid Applied Waterproofing, Pitched Roofing, IKO Hyload Structural Waterproofing

technical.ma@iko.com
- For Mastic Asphalt

technical.cc@iko.com
- For Single Ply and Permatec Hot Melt

Sales sales.uk@iko.com
Marketing getintouch.uk@iko.com

COMPANY ACCREDITATIONS

IKO PLC, a roofing, waterproofing, and insulation company, holds various accreditations that demonstrate its commitment to quality, safety, and environmental responsibility. These include ISO certifications for quality management and occupational health and safety, British Board of Agrément (BBA) accreditations for specific products and systems, and Factory Mutual (FM) approval for certain roofing systems.

All our manufacturing plants have BS EN ISO 9001, BS EN ISO 14001, BS EN ISO 45001, and BES 6001 accreditation, meaning we match the quality and sustainability requirements and use responsibly sourced raw materials in our production. We also re-use by-products from manufacture, wrap products in minimal packaging, and we employ a streamlined transportation network.

IKO is also a leading member of all relevant trade associations such as NFRC, BFRA, SPRA, LRWA, MAC, RSTA, BJA and LCRIG having technical experts within the technical and standards committees to help us get informed first-hand about recent updates on technical requirements for the design and installation of roofing, waterproofing, road and bridge maintenance industry products.

DISCLAIMER

Whilst every precaution is taken to ensure that the information given in this literature is correct and up-to-date it is not intended to form part of any contract or give rise to any collateral liability, which is hereby specifically excluded.

IKO reserves the right to amend and/or withdraw this document without notice.

Intending purchasers of our materials should therefore verify with the company whether any changes in our specification, application details, withdrawals or otherwise have taken place since this literature was published.