

# IKOpro Synthaprufe Original

## Technical Data Sheet – Section 1.40

### PRODUCT INFORMATION

IKOpro Synthaprufe Original is a blend of bitumen emulsion and synthetic rubber latex. It is a water-based cold liquid product applied in multiple coats by brush to provide a fully bonded damp proofing solution to solid vertical and horizontal substrates. It can also be used to form part of a structural waterproofing design to BS8102:2022.



Size	Product Code
5 Litre	MW686605
25 Litre	MW686620

### USE

For internal application to damp proof masonry walls and concrete floors, prior to receiving plaster coat and sand/ cement screed finishes respectively.

Can also be applied externally below ground as part of a (Type A barrier) structural waterproofing system designed to conform to the requirements of BS8102:2022.

Not suitable for use externally above ground and cannot be rendered.

### FEATURES & BENEFITS

Multiple Uses - the product is suitable for use as a damp proof membrane and can be used as part of a designed structural waterproofing system.

Ease of Use - the product is cold applied and does not require specialist skills for application, making it a cost effective, low labour application.

Low Odour - water-based composition allows for application in confined spaces.

### INDEPENDENT ACCREDITATION



The product carries a BBA Agrément Certificate 98/3454

## **PERFORMANCE & COMPOSITION**

Material:	Rubberised Bitumen Emulsion
Form:	Liquid
Colour:	Black
Tin Size:	2.5L / 25L
Application Temp:	5°C and rising
Drying Time:	6 hours*

\*Approximate - at temperatures in excess of 10°C, with a relative humidity of less than 80%.

### Application Rates:

Floors	- 1st coat	1m <sup>2</sup> /L (1L/m <sup>2</sup> )
	- 2nd coat	1.5m <sup>2</sup> /L (0.67L/m <sup>2</sup> )
Walls	- 3 equal coats	2m <sup>2</sup> /L (0.5L/m <sup>2</sup> )

## **SPECIFICATION**

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

J30 – Liquid Applied Damp Proof Membrane

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 8102:2022 Protection of below ground structures against water ingress. Code of practice

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**

Hyload 3mm Protection Board - 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.

## **MATERIAL HANDLING**

For information regarding storage and handling, please refer to relevant sections of the IKO Safety Data Sheet.

## **CONSTRUCTION**

IKOpro Synthaprufe Original is used as a fully bonded liquid applied damp proof membrane for solid concrete floors and internal masonry wall surfaces.

The product is for use upon common building materials that are suitably robust for use in areas affected by moisture. These materials are typically concrete and masonry.

For structural waterproofing situations, IKOpro Synthaprufe Original is categorised as Type A Barrier Protection under BS8102:2022 suitable for external below ground applications.

## Preparation

Application to new concrete floor construction should be done after the hydration period specified by the concrete provider has passed and all works to remove surface latency has been undertaken. New concrete, sand and cement screed or render should have a wood float finish. Lightly tamped surfaces can also be acceptable provided that undulations are not greater than 5mm.

Application to new masonry should be done after the mortar has surpassed the required hydration period. Existing masonry will require preparation that returns the surface to as close to a virgin substrate as possible. In both situations masonry should be flush pointed to provide an acceptable surface.

All surfaces should be clean and free from contaminants with any sharp protrusions or low points suitably rectified to create a level substrate. Prior to application, surfaces can be slightly dampened with clean water, but the product must not be applied to exposed surfaces in wet conditions (i.e. rain or standing water) or if these conditions are likely to occur before the membrane has dried.

## Application - Damp Proofing Floors

The 1st coat should be applied at a rate of  $1\text{m}^2$  per litre ( $1\text{L}/\text{m}^2$ ) and be applied by brush, moving in one direction across the application area. The 2nd coat should be applied at a rate of  $1.5\text{m}^2$  per litre ( $0.67\text{L}/\text{m}^2$ ) at right angles to the first, moving in one direction across the application area.

The membrane application must provide continuity with the damp proof course (DPC) within perimeter and internal wall constructions with the edge of the DPC exposed to facilitate contact.

All angles should be pre-treated with 1 coat of IKOpro Synthaprufe Original extending 175mm either side, at a rate of  $1\text{m}^2$ / litre. A 300mm wide strip of reinforcing fabric (lightweight polyester fleece) is embedded into the surface while still wet.

The completed installation should be inspected prior to any covering work, ensuring that the membrane is not damaged and total coverage is achieved. In the event of damage to the membrane, the area must be re-coated with further liquid at the rates given previously forming 100mm overlaps with existing applications.

Completed installations must receive permanent protection from damage, trafficking and subsequent building fabric.

In insulated floor construction, this protection can be achieved by using Hyload 3mm Protection Board placed over the final coat of IKOpro Synthaprufe Original once dry, which is then followed by a suitable insulation board and screed arrangement.

In uninsulated floor construction, the protection must be achieved using a minimum 50mm sand and cement bonded screed cast over a sharp sand blinded final coat of IKOpro Synthaprufe Original.

Latex levelling compounds and fast flow screeds must not be used directly over IKOpro Synthaprufe Original. The product cannot be tiled or covered directly with floor coverings i.e. carpets, vinyl, laminate flooring.

## **Application - Damp Proofing Walls**

The product should be applied to the internal face of the walls in 3 equal coats, applied at a rate of 2m<sup>2</sup> per litre per coat (0.5L/m<sup>2</sup>/per coat).

The 1st coat should be applied by brush, moving in one direction across the application area. The 2nd coat should be applied at right angles to the 1st coat, moving in one direction across the application area. A 3rd and final coat should be applied in the same manner and direction as the 1st.

Care should be taken at positions of detailing such as corners, door jambs and obstructions to ensure continuous protection is achieved.

The completed installation should be inspected prior to any covering work, ensuring that the membrane is not damaged. In the event of damage to the membrane, recoat the area with further liquid at the rates given previously forming 100mm overlaps with existing applications.

Completed installations must receive permanent protection from 2 coats of gypsum based plaster to a thickness no greater than 12mm i.e. bonding coat/skim coat, applied directly to a sharp sand blinded final coat of IKOpro Synthaprufe Original.

## **Application - Structural Waterproofing/ External Retaining Walls**

When used upon retaining walls structures either external, or those forming part of a building following a (Type A barrier) waterproofing design compliant with BS8102:2022, the product should be applied to the earth retaining face of the walls by brush.

The product should be applied in 3 equal coats, applied at a rate of 2m<sup>2</sup> per litre per coat (0.5L/m<sup>2</sup>/per coat).

The 1st coat should be applied by brush, moving in one direction across the application area. The 2nd coat should be applied at right angles to the 1st coat, moving in one direction across the application area. A 3rd and final coat should be applied in the same manner and direction as the 1st.

The height of the application should be determined by the level of ground retained, terminating at a level coincidental to that position. The product should not be taken above ground and left exposed.

Care should be taken at positions of detailing such as water outlets through wall, weep positions to ensure continuous protection is achieved.

The completed installation should be inspected prior to any covering work, ensuring that the membrane is not damaged. In the event of damage to the membrane, the area must be re-coated with further liquid at the rates given previously forming 100mm overlaps with existing applications.

Completed installations must receive permanent protection from damage by follow on work i.e. backfill operations, landscaping works. This protection can be created using IKO Plasdrain membranes where drainage provision is required at part of the overall sub surface drainage system or Hyload 3mm Protection Board.

## **DURABILITY**

When subject to the normal conditions of use and installed in line with the published guidance for that area of work, the product will provide an effective barrier to the transmission of liquid water and water vapour for the life of the structure into which it is incorporated.

## OTHER RELEVANT 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](mailto:technical.ab@iko.com)

- For Reinforced Bitumen Membranes, IKOpro and Flexia Liquid Applied Waterproofing, Pitched Roofing, IKO Hyload Structural Waterproofing

[technical.ma@iko.com](mailto:technical.ma@iko.com)

- For Mastic Asphalt

[technical.cc@iko.com](mailto:technical.cc@iko.com)

- For Single Ply and Permasec Hot Melt

### **Sales**

[sales.uk@iko.com](mailto:sales.uk@iko.com)

### **Marketing**

[getintouch.uk@iko.com](mailto: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.

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