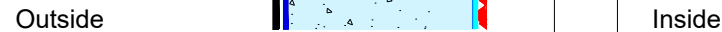


- Site photographs of all service penetrations to be uploaded to Premtrac prior to pouring concrete. Allow sufficient time for Premcrete to review and QC check.
- If annulus around the penetrations is greater than 75mm Teknocem LA should be used instead of Hydroprufe EP.
- Where multiple pipes are cast together, a minimum distance of 50mm should be maintained between pipes.
- All laps between products are 150mm unless otherwise annotated.
- Hydroplug System is typically installed by follow on contractors, not groundworker, once M&E works are fully installed.
- Hydroplug System is not covered under warranty once installed.
- Hydroplug Sealing Kit only applicable for service penetrations.

Grade 3 English Language Arts: The original student record is available for Grades 1-10. For Grades 11-12, a condensed record (ASB 8192, 2022, Table 2)



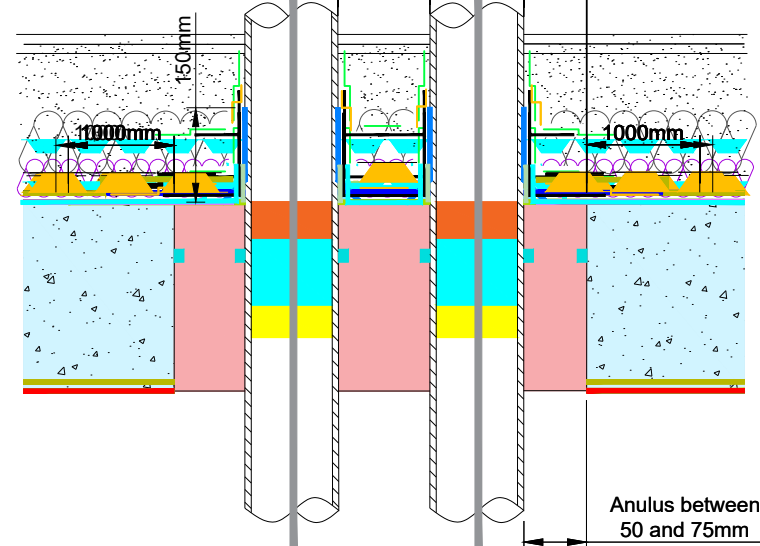
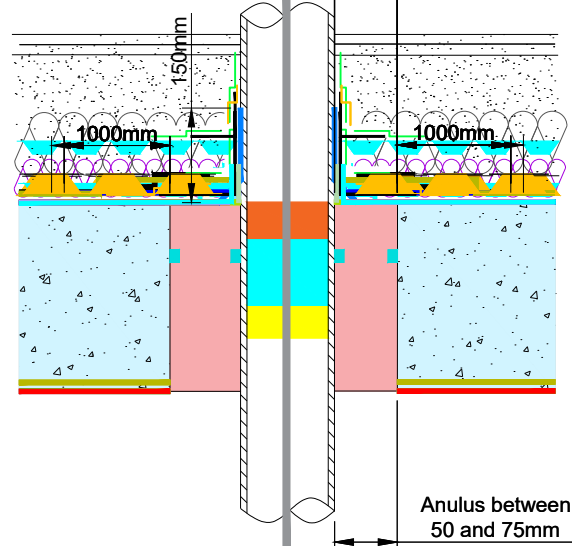
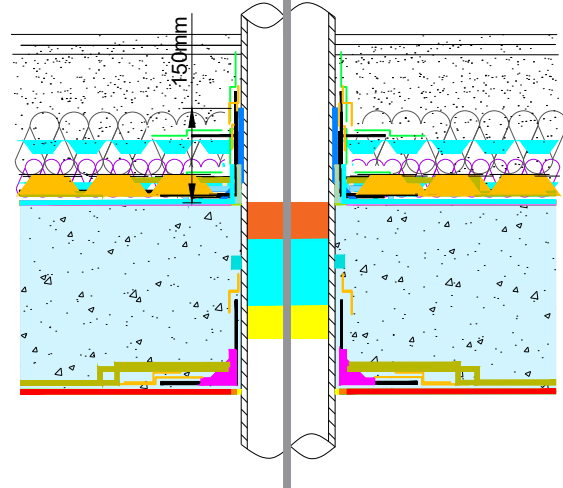
TYPICAL CAST IN PENETRATION DETAIL



TYPICAL BOX OUT PENETRATION DETAIL



TYPICAL BOX OUT PENETRATION DETAIL FOR MULTIPLE PIPES



KEY

Click on product names to access technical information

Hydroplug Foam	
Hydroplug Paste	
Hydroplug Mortar	
Hydroprufe EP or Teknocom LA	
Service inside sleeve	
Hydrostop WS10	
Hydroprufe HP006	
Hydroprufe HP005	
Hydroprufe HP004	
Hydroprufe HP003	
Hydroprufe HP002	
Hydroprufe HP001	
Hydroprufe HP000	
Hydroprufe HP000 per (mm)	
Hydroprufe Board	
Hydroprufe Primer	
Hydroprufe Board Skin Application	
Hydroprufe Board Skin Tape	
Hydroprufe Board Skin Tape	
Hydroprufe Tophat	
Hydroprufe Tophat	
Standard Concrete to Structural Liner Wall / Slab	
Hydroflow HP8	
Hydroflow HP20	
Hydroflow Corner Tape	
Hydroprufe Tophat	
60mm Insulation	
Min 250kPa	
Hydroseal FX	

	<u>Conditions</u> This drawing is copyright of Premcrete. Permission for copying may be obtained from Premcrete. This drawing must be read in conjunction with the relevant datasheets, BS 8102:2022 and BS 8485:2015+A1:2019 if appropriate. This drawing has been prepared as a guide to assist with the installation of the products. This drawing requires the approval of the designer of the structure. It is the responsibility of the designer to ensure that any design decisions, made by others that have an impact on the waterproofing design are brought to the attention of the waterproof designer. It is the responsibility of the designer of the structure to ensure that the details shown on this drawing match the construction drawings. Drawing template is A3L.
--	---

Important Notes

The waterproofing design is designed to the Grades of Environment described below:

Grade 1A - Seepage and dampness from internal and external sources tolerable

Grade 1B - No seepage, however damp areas from internal and external sources tolerable

Grade 2 - No seepage through structure is acceptable however condensation and dampness are tolerable as a result of internal air moisture

Grade 3 - Ventilation, dehumidification or air conditioning are required appropriate to intended use in accord with BS 8102:2022

Table 2 to achieve a dry, habitable environment which is outside the scope of this design

Construction joints are required to be scabbled or retarded to ensure good concrete connection. An approved curing agent is to be applied to concrete immediately after pouring.

Laps between dissimilar waterproofing products to be 100mm unless otherwise annotated.

All substructure construction joints must have waterbar installed with a minimum of 75mm concrete cover. (Internal, non-retaining construction joints do not require waterbars).

A maximum ratio of 3:1 is required for any liner wall pours. Liner wall pours should be cast 'hit and miss' to ensure that shrinkage of concrete is compensated.

It is the responsibility of the installing contractor to ensure that good concrete practice is maintained at all times when pouring concrete. If the design incorporates any of the following practices:

- Hydrocrete sealer to be a minimum of 200mm thick and 300mm if poured monolithically in conjunction with standard concrete.
- Hydroprufe Primer to be applied to concrete/masonry substrate prior to the application of Hydroflow Corner Tape or Hydroprufe Detail Tape.
- Hydroseal Sealer to be applied to all surfaces prior to installing Hydroflow HP.
- High density insulation under Hydroflow HP20 should be fixed to substrate at a minimum of 5 fixings per sheet.

P01	09/11/23	Issued for Information	DM	JM
Rev	Date	Description	Dwn	Chk

Scale

Not to Scale

DRAFT
CONSTRUCTION
Not for Construction
ISSUE
for discussion only

This drawing is designed to
achieve the following environment
in accordance with BS 8102:2022

GRADE 12

Client
TENDER

Title

PIPE AND SERVICE PENETRATION DETAILS

Project
GENERIC

Premcrete Drawing No
TD-005

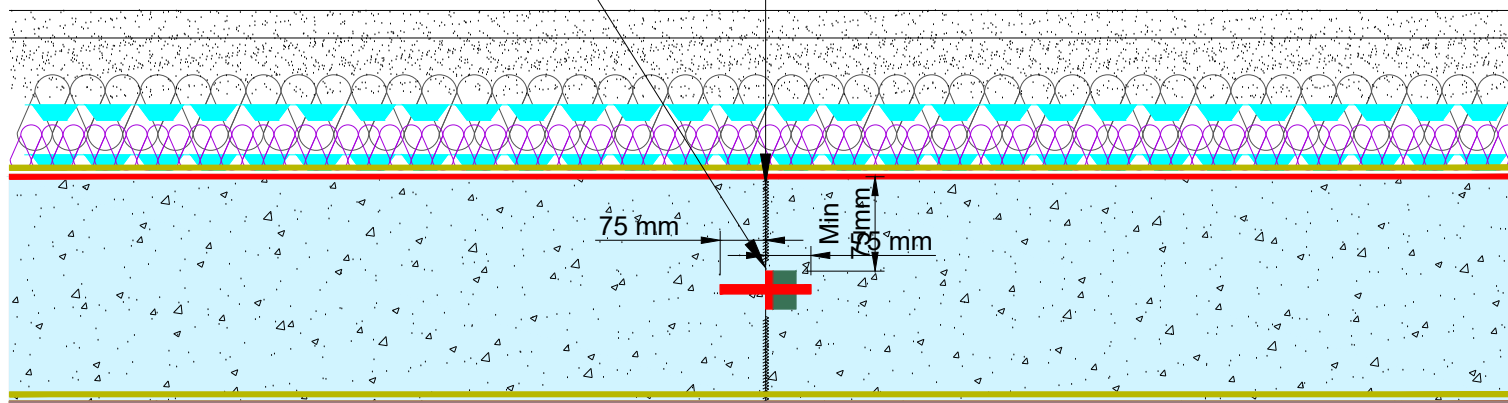
Date	09/11/2023
------	------------



44 Macadam Way | West Portway Industrial Park
Andover | Hampshire | SP10 3XW
Tel: 02380 276166 | sales@premcrete.com
www.premcrete.com

- **Source:** Fig. 5, the original data for the e-Validation Capade 2nd Environment, however referred to as B6 of 402/2009-Stat-B5-2-102-2022 Table 21, internal air moisture.

- Expanded Metal Stop-end



Pour 1

Pour 2

Click on product names to
access technical information

Hydrius Field 9000 ■
Dep. Mar. 2009 - to be
extended to 2009
if requested by 3500
in a security provided

warranty provider	Protection Board
500	Protection Board
300	

**Standardized
Concrete to
Structural Liner
Wall / Slab**

Hydroflow HP20	
60mm Insulation	
Min 250kPa	

This drawing is copyright of Premcrete.
Permission for copying may be obtained from Premcrete.
This drawing must be read in conjunction with the relevant datasheets, BS 8102:2022 and BS 8485:2015+A1:2019 if appropriate.
This drawing has been prepared as a guide to assist with the installation of the products.
This drawing requires the approval of the designer of the structure.
It is the responsibility of the designer to ensure that any design decisions, made by others that have an impact on the waterproofing design are brought to the attention of the waterproofing designer.
It is the responsibility of the designer of the structure to ensure that the details shown on this drawing match the construction drawings.
Drawing template is A4L.

The waterproofing design is designed to the Grades of Environment described below:

- Grade 1A - Seepage and dampness from internal and external sources tolerable
- Grade 1B - No seepage, however damp areas from internal and external sources tolerable
- Grade 2 - No seepage through structure is acceptable however condensation and dampness are tolerable as a result of internal air moisture
- Grade 3 - Ventilation, dehumidification or air conditioning are required appropriate to intended use in accord with BS 8102:2022 Table 2 to achieve a dry, habitable environment which is outside the scope of this design

- Construction joints are required to be scabbled or retarded to ensure good concrete connection.
- An approved curing agent is to be applied to concrete immediately after pouring.
- Laps between dissimilar waterproofing products to be 10mm unless otherwise annotated.
- All subsurface construction joints must have waterblast installed with a minimum of 75mm concrete cover. (Internal, non-retaining construction joints do not require waterblasts).
- A maximum ratio of 3:1 is required for any liner wall pours. Liner wall pours should be cast 'hit and miss' to ensure that shrinkage of concrete is compensated.
- It is the responsibility of the installing contractor to ensure that good concrete practice is maintained at all times when pouring concrete.
- If the design incorporates any of the following products:
 - Hydrocrete should be a minimum of 200mm thick or 300mm if poured monolithically in conjunction with standard concrete.
 - HydroPurfe Primer to be applied to concrete/ masonry substrate prior to the application of Hydroflow Core Tape or HydroPurfe Detail Tape.
 - HydroSeal to be applied to all surfaces prior to installing Hydroflow HP.
 - High density insulation under Hydroflow HP20 should be fixed to substrate at a minimum of 5 fixings per sheet.

P01	20/03/23	Issued for Information	DM	JM
Rev	Date	Description	Dwn	Chk

DRAFT
CONSTRUCTION
Not for Construction,
ISSUE
for discussion only

This drawing is designed to achieve the following environment in accordance with BS 8102:2022

GRADE 12

Client
TENDER

Project
GENERIC

Premcrete Drawing No TD-012(1)

Date
20/03/2023

Scale
Not to Scale



44 Macadam Way | West Portway Industrial Park
Andover | Hampshire | SP10 3XW
Tel: 02380 276166 | sales@precrete.com
www.precrete.com

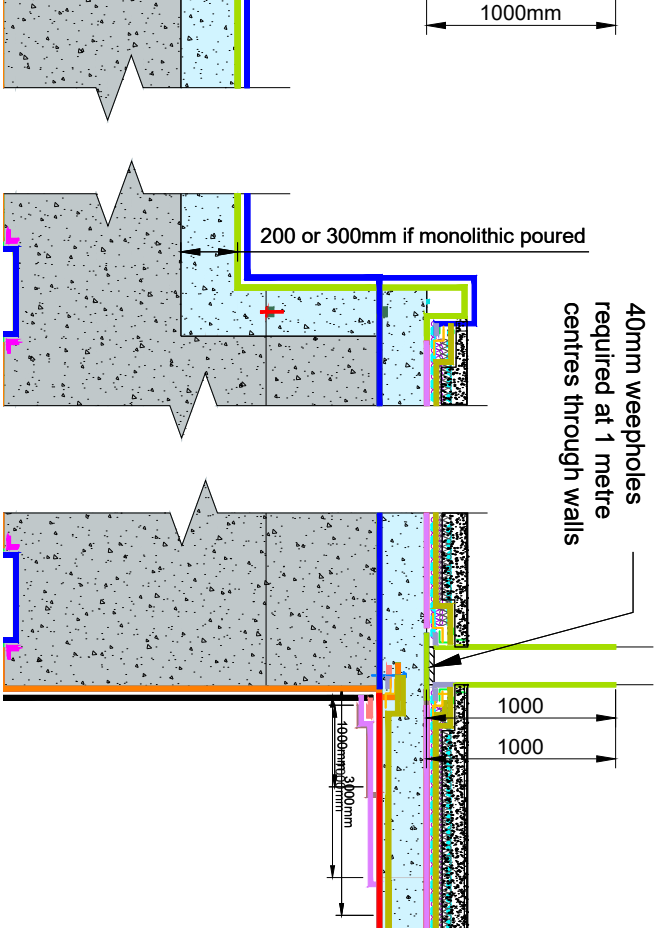
Title

TYPICAL CONSTRUCTION JOINT DETAIL

Environment, however
of internal air moisture.

Grade 3 Zone

Grade 2 Zone



COMBI-SEAL

GAS RESISTANT WATERPROOF MEMBRANE

TECHNICAL
DATA

DESCRIPTION

COMBI-SEAL comprises of a high-density polyethylene membrane (HDPE) and non-woven self-healing, geotextile membrane to produce a durable, pre-applied membrane resisting Radon, hydrocarbons, VOCs, ground gases and water. The membrane utilizes PREMCRETE APAN™ technology to effectively resist water pressure, gases and VOC's from within the ground. The composite membrane will restrict gas vapour transmission to less than 40ml/day/m² in accordance with BS8485:2015+A1:2019. **COMBI-SEAL** is a highly chemical resistant membrane which ensures that the integrity of the membrane is secure even in the presence of aggressive chemicals. The textured profile of the membrane ensures an integral bond to the structure to which it is applied.

USES

COMBI-SEAL is a pre-applied VOC resistant waterproof membrane for basement construction, lift pits, concrete retaining walls and other structures which extend below ground where resistance to hydrocarbons, ground gases and water is required. **COMBI-SEAL** may also be used to protect ground floor slabs, particularly where a good integral bond is required to the underside of the concrete slab or where a clay heave board has been installed. **COMBI-SEAL** achieves two points when correctly installed in accordance with Table 7 of BS 8485:2015+A1:2019.

COMPLIANCE

COMBI-SEAL is certified BDA and is UKCA Certified.



ADVANTAGES

- Lightweight but robust membrane, provides an ease of handling on site.
- Unique APAN™ technology forms strong adhesion to concrete.
- Taped or welded joints.

PROCEDURE

Surface Preparation: The substrate should be well compacted hardcore or blinded with lean-mix concrete with surface free from excessive undulation or sharp projections which may puncture the membrane. Irregularities in the surface should be repaired with a suitable PREMCRETE repair mortar. If the membrane is to be installed to concrete foundation piles, then the piles should be prepared removing all loose soil and ensuring that the concrete is relatively flat. The surface should be prepared so that there are no voids which the membrane would have to span as this would render the active element of the membrane ineffective. The membrane must be fully encapsulated against a consistent surface for maximum performance.



www.premcrete.com | 02380 276166 | sales@premcrete.com

44 Macadam Way, West Portway, Andover, Hampshire SP10 3XW

COMBI-SEAL

GAS RESISTANT WATERPROOF MEMBRANE

TECHNICAL
DATA

PROCEDURE

Application to vertical surfaces: COMBI-SEAL, when pre-applied, should be installed to the inside face of the shuttering to be subsequently filled with concrete. The sheets should be installed with the white active fleece in contact with the freshly placed concrete and aligned vertically ensuring that all lap joints face down away from the concrete pour. **COMBI-SEAL**, when post-applied, must be installed against a consistent substrate and continuous compaction achieved against the membrane. Lap joints should be sealed using the COMBI-SEAL TAPE or the selvedge strip should be used by folding back the white fleece before removing the release paper from the tape before positioning the adjacent sheet of membrane. The lap joint should be rolled with a seam roller before folding the fleece back into place, this will provide two-fold protection at the lap joint. The membrane should be fixed mechanically through the selvedge or other taped zones using PREMCRETE METAL WASHER FIXINGS at 500mm centres. This will ensure the integrity of the gas barrier remains intact. Once the concrete has been placed the shutter may be removed, and the **COMBI-SEAL** will remain adhered to the concrete. The membrane should be protected using PREMCRETE PROTECTION BOARD 600 prior to backfill to ensure the membrane remains un-punctured. **COMBI-SEAL** should not be installed above the final ground level.

Application to horizontal surfaces: COMBI-SEAL, when pre-applied, should be laid with the white fleece facing the installer and in direct contact with the concrete where an active bond is required. There may be applications where **COMBI-SEAL** can be installed without direct concrete contact, however such applications must ensure consistency of loading on the membrane. This application is not suitable for where ground heave is to be considered within the design. Adjoining sheets should be lapped by a minimum of 150mm and sealed using COMBI-SEAL TAPE or by making use of the selvedge (refer to above methodology). It is recommended to stagger the lap joints by 300mm to avoid 4 sheets lapping at one location. The membrane should be fixed mechanically through the selvedge or other taped zones using PREMCRETE METAL WASHER FIXINGS at 500mm centres. Typically, reinforcement spacer blocks should be placed along the length of the lap joint to ensure that the membrane is effectively loaded to prevent displacement during placement of the concrete. Service penetrations and pipes should be sealed using a HYDROPRUFE TOPHAT which is sealed to the underside of the **COMBI-SEAL** using HCR BUTYL TAPE. TWINSEAL COMPOUND GR should be applied around the circumference of the penetration to ensure the integrity of the joint. TWINSEAL COMPOUND GR may also be used to assist with the detailing of difficult junctions.



www.premcrete.com | 02380 276166 | sales@premcrete.com

44 Macadam Way, West Portway, Andover, Hampshire SP10 3XW

Structural Waterproofing | Gas Protection | Ground Heave Protection | Concrete Repair | Technical Grouts | Joint Sealants | Protective Coatings | Admixtures

COMBI-SEAL

GAS RESISTANT WATERPROOF MEMBRANE

TECHNICAL DATA

Property	Test Method	Value
Weight	EN 1849-1	950 g/M2
Thickness (20 kPa)	EN 1849-1	3mm (0.5mm HDPE, 2.5mm Geotextile)
Maximum Tensile MD	EN ISO 12311-1	930 N/5cm
Maximum Tensile CD	EN ISO 12311-1	1456N/5cm
Elongation at break MD	EN ISO 12311-2	79%
Elongation at break CD	EN ISO 12311-2	83%
Tear Resistance MD (nail shank)	EN 12310-1	1010 N
Tear Resistance CD (nail shank)	EN 12310-1	1030 N
Water Tightness	EN 1928 B	PASS
Resistance to Impact	EN 12691	>450mm
Moisture/Vapour Transmission Rate	ISO 15106	0.134g/M ₂ /24Hr
Methane Permeability	ISO 15105-1	23ml/M ₂ /24Hr
Carbon Dioxide Permeability	ISO 15105-1	25ml/M ₂ /24Hr
Static Load Resistance	EN 12730 - B	20 Kg
Shear Resistance at Joints	EN 12317-2	402 N
Further independent test certificates are available upon request relating to VOC resistance.		

PACKAGING & COVERAGE

Pack Size: Roll size is 2m x 25m roll

Weight: 48kg

Pallet Quantity: 20 rolls

STORAGE & SHELF LIFE

Store in a cool, dry, frost-free conditions
The membrane should be protected
against UV

HEALTH & SAFETY

See separate Material Safety Data Sheet

ANCILLARY PRODUCTS

- COMBI-SEAL TAPE 150mm x 45m
- METAL WASHER FIXINGS box of 100
- HCR BUTYL TAPE 30mm x 30m
- COMBI-SEAL JOINT STRIP 450mm x 20m
- COMBI-SEA LJOINT STRIP 150mm x 20m



www.premcrete.com | 02380 276166 | sales@premcrete.com

44 Macadam Way, West Portway, Andover, Hampshire SP10 3XW

Structural Waterproofing | Gas Protection | Ground Heave Protection | Concrete Repair | Technical Grouts | Joint Sealants | Protective Coatings | Admixtures

COMBI-SEAL

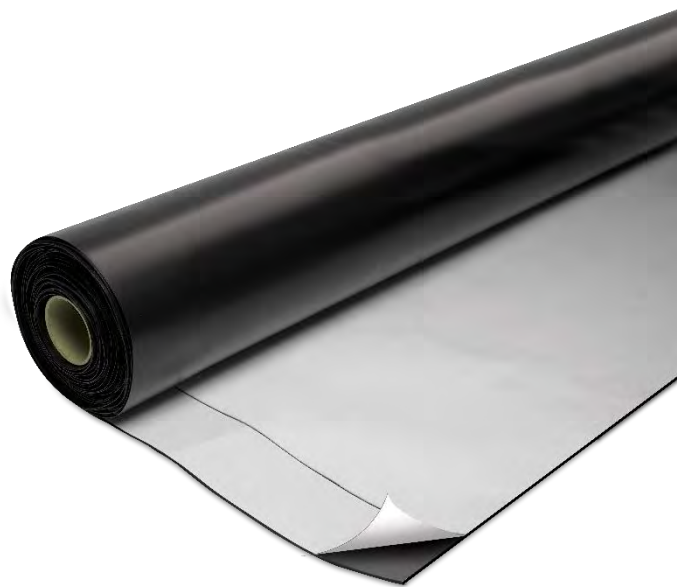
GAS RESISTANT WATERPROOF MEMBRANE

TECHNICAL
DATA

HOT WEATHER GUIDANCE

COMBI-SEAL comprises of a polyethylene membrane which is bonded to a fleece which incorporates the PREMCRETE APAN technology. It is known that some movement in the membrane will occur under rising temperatures, due to the characteristics of the MS Polymer technology used in its manufacture, which retains a degree of latent moisture. Our installation guidance of mechanically fixing the membrane is designed to mitigate this behaviour.

As per our installation guidance, the lap joints should be mechanically fastened to lock the adjacent sheets together. It is important to ensure that any mechanical fixings are made through the lap joint where the HCR Butyl Tape has been installed. Should fixings be required outside of the taped zone, then Twinseal Compound GR should be applied over the fixing to maintain the integrity of the gas membrane. If the membrane is laid to concrete blinding, then Premcrete Metal Washer fixings must be used to nail through the membrane into the blinding at 500mm centres. If the membrane is to be laid on clay heave board, then the membrane should be stapled at the lap joint using a Heavy-Duty Staple Gun. Fixings should be made at maximum of 200mm centres and reinforcement spacer blocks should be laid along the length of the lap joint to assist with holding the membrane in position.



www.premcrete.com | 02380 276166 | sales@premcrete.com

44 Macadam Way, West Portway, Andover, Hampshire SP10 3XW

Structural Waterproofing | Gas Protection | Ground Heave Protection | Concrete Repair | Technical Grouts | Joint Sealants | Protective Coatings | Admixtures



HYDROPRUFE LG

Liquid Gas Membrane

DESCRIPTION

HYDROPRUFE LG is an epoxy based liquid gas membrane which is suitable for application to porous substrates to provide resistance to ground gases including methane and carbon dioxide. It is supplied as two-component pack, consisting of a base component and a curing agent suitable for mixing on site. When applied to the substrate it will also act as an adhesion promoter. The liquid applied membrane cures to form a resilient gas and VOC barrier, which is also resistant to water and ground moisture.

USES

HYDROPRUFE LG is suitable for application to structures including concrete and masonry to provide a seamless gas resistant membrane. It is particularly suitable for applications where it is not practicable to install a sheet gas membrane system, for example pile cap applications.

ADVANTAGES

- Excellent resistance to methane and carbon dioxide and VOC contaminants.
- Excellent adhesion to damp concrete.
- Low viscosity for easy application.
- Ease of application to complex structures.
- Solvent free and low odour.
- Test data confirming acceptability for use with pile caps.

Property	Value
Colour	Red
Pot Life	50 mins @ 20°C
Adhesive Bond to Damp Concrete	>3.5MPa (Concrete Failure)
Viscosity	480 CPS @ 20°C
Flexural Strength	60 MPa
Water Absorption	<0.3% after 7 days
Methane Transmission Rate (OTR)/ml.mm/m ² . Day.atm	2.4
Carbon Dioxide Transmission Rate (OTR)/ml.mm/m ² . day.atm	1.4

PROCEDURE

Surface Preparation: Substrates to which the HYDROPRUFE LG is to be applied should be thoroughly cleaned and free from all loose material. Surface laitance should be removed by high-pressure jet-washing or mechanical abrasion where required. This will ensure that an adequate key is provided for the applied coating. All standing water must be removed prior to application. Whilst the coating is suitable for application to damp substrates the concrete should be given 2-3 hours to dry following jet-washing preparation. Any excessive substrate defects should be repaired using a suitable PREMCRETE repair product. The concrete sub-base should have a minimum compressive strength of 25MPa. The prepared substrate should be free from any live water ingress and if the substrate is very porous, such as concrete blockwork, a light dampening is recommended. A fine spray misting of water or a flick over with a slurry brush will be sufficient.



Mixing: The contents of the curing agent components should be poured into the base component tin and mixed thoroughly using a slow speed drill and paddle mixer until a homogeneous mix is achieved, which is uniform in colour and consistency. Special care should be taken to ensure that packs are not part mixed.

Application: Horizontal substrates, such as pile caps, require a single 1 coat application at a minimum WFT (Wet Film Thickness) of 1mm. Vertical substrates should have two coats applied. Hydroprufe LG should be applied using a suitable brush, roller, or airless spray equipment and where a mechanical key is required to promote adhesion to subsequently cast concrete, then a quartz aggregate should be broadcast into the wet coating. Once the coating has dried, then the excess aggregate should be swept or blown from the surface.

Curing: Hydroprufe LG will be touch dry after 6hrs at 20°C and hard dry after 16hrs at 20°C.

Equipment Cleaning: Tools and equipment should be cleaned immediately using water.

PACKAGING & COVERAGE

Pack Size: HYDROPRUFE LG is supplied in 5Ltr and 15Ltr units.

Coverage: Coverage will vary depending on substrate quality, therefore, consideration for decreased coverage on pile cap applications should be made. Based on a standard quality and porosity of concrete, coverage rates at 1mm thickness are as follows:

5Ltr- 5m²

15Ltr- 15m²

STORAGE & SHELF LIFE

HYDROPRUFE LG should be stored in dry conditions at temperatures between 10°C and 30°C. When stored in unopened containers the product will have a shelf life of 12 months.

HEALTH & SAFETY

See separate material safety datasheet.



TWINSEAL COMPOUND GR

GAS-RESISTANT WATERPROOF SEALING COMPOUND

DESCRIPTION

TWINSEAL COMPOUND GR is an epoxy-based, waterproof sealing compound formulated to provide enhanced gas resistance to structures. It is designed for a variety of surface preparation and waterproofing sealing details for use with PREMCRETE Waterproof Membranes. Once applied, the TWINSEAL COMPOUND GR will form an impermeable chemical-cured connection to a wide variety of substrates. Its thixotropic consistency ensures ease of application to most substrates.

Property	Value
Consistency	Paste-like
Colour	Blue
Specific Gravity	1.4
Working Life @ 20°C	45 minutes
Curing Time @ 20°C	Tack-free - 6-8 hours Hard Dry – 16-24 hours Fully Cured – 7 days

USES

TWINSEAL COMPOUND GR is suitable for use on structural concrete and masonry. It is used for creating a waterproof seal around penetrations through PREMCRETE WATERPROOF MEMBRANES and other difficult junctions, where it is important to maintain the integrity of the membrane. It is particularly suitable for sealing membranes to waterproof and gas resistant coatings where the use of a lap tape is not suitable.

ADVANTAGES

- Provides effective watertight seal at difficult junctions.
- Resistant to Gas and VOC vapours.
- Produces effective seal between otherwise incompatible membranes.
- Easily applied by brush or trowel.

Structural Waterproofing | Gas Protection | Concrete Repair
Technical Grouts | Joint Sealants | Protective Coatings | Admixtures

www.premcrete.com | 02380 276166 | sales@premcrete.com
44 Macadam Way, West Portway, Andover, Hampshire, SP10 3XW

TWINSEAL COMPOUND GR

GAS-RESISTANT WATERPROOF SEALING COMPOUND.

PROCEDURE

Surface Preparation: Surfaces to receive TWINSEAL COMPOUND GR should be dry and free from dust, dirt, grease, and other deleterious materials. All loose material should be removed. If TWINSEAL COMPOUND GR is to be applied to a waterproof coating, then the coating should be hardened before application of the TWINSEAL COMPOUND GR.

Mixing: The contents of the curing agent component should be poured into the base component tin and mixed thoroughly using a slow speed drill and paddle mixer until a homogeneous mix is achieved, which is uniform in colour and consistency. Special care should be taken to ensure that packs are not part mixed.

Application: When sealing between PREMCRETE Waterproof Membranes and a protruding pile head or pile cap interface, the membrane should be cut tightly to the profile of the concrete with TWINSEAL COMPOUND GR applied by brush as a 3 x 100mm application with 50mm connection onto the geotextile fleece of the membrane and 50mm onto the pile interface. When sealing PREMCRETE Waterproof Membranes onto a pile cap which is cast flush with the blinding level, TWINSEAL COMPOUND GR should be brush applied as a 1mm thick coating to the perimeter of the pile cap before lapping the Waterproof Membrane onto the pile cap perimeter, securing with the METAL WASHER FIXINGS and then sealing over with a further 2mm thick application of TWINSEAL COMPOUND GR.

Trowel finishing of the TWINSEAL COMPOUND GR is also acceptable.

Equipment Cleaning: Equipment should be cleaned using Premcrete Cleaning Solvent.

PACKAGING & COVERAGE

Pack Size: 5kg

Yield: 3.5ltrs

Coverage: Coverage will be 10m when applied as a typical 3 x 100mm.

STORAGE & SHELF LIFE

TWINSEAL COMPOUND GR should be stored in dry conditions at temperatures between 8°C and 30°C. Unopened containers have a shelf life in excess of 12 months.

HEALTH & SAFETY

See separate material safety datasheet.



Premcrete Ltd | Reg no. 08079452 VAT no. 194306207

Structural Waterproofing | Gas Protection
| Concrete Repair Technical Grouts | Joint
Sealants | Protective Coatings | Admixtures

www.premcrete.com | 02380 276166 |
sales@premcrete.com | 44 Macadam Way,
West Portway, Andover, Hampshire, SP10
3XW

The information provided in this data sheet is intended for general guidance only and is given in good faith based on Premcrete Ltd current knowledge and experience. No warranty in respect of fitness for a purpose, or any other liability whatsoever can be inferred from the information contained within this datasheet. Users should determine the suitability of the materials for their particular application and should always refer to the most recent issue of the product data sheet for the product concerned. All materials are supplied in accordance with Premcrete Ltd Sales Terms & Conditions (available upon request and on Company Website).



HYDROPRUFE 8000

GAS RESISTANT SELF-ADHESIVE MEMBRANE

DESCRIPTION

HYDROPRUFE 8000 is a high performance, cold applied waterproof and gas resistant self-adhesive membrane manufactured from an aluminium/polyethylene laminate coated on one surface with a layer of polymer modified Bitumen adhesive. It is suitable for application to masonry concrete and other substrates to provide an effective barrier to both water and ground gases.

USES

HYDROPRUFE 8000 is used as a self-adhesive membrane for application to substructures where resistance to both groundwater and ground gases is required. HYDROPRUFE 8000 provides adequate resistance to methane, carbon dioxide and radon gas. It is designed for application to basements, underground car parks, tunnels, lift pits and other substructures, where full protection is required.

ADVANTAGES

- Rapid and easy cold application to substrates.
- Aluminium laminate provides superior resistance to ground gas.
- Conforms to BS 8485:2015-A1:2019
- Effective resistance to a 6m head of water when fully supported.
- Excellent adhesion to a wide variety of substrates.

PROCEDURE

Surface Preparation: The substrate to which the membrane is to be applied, should be smooth and free from excessive undulation and sharp projections, which may puncture the membrane. Concrete substrate should be dry and free from dust and other deleterious materials. A mortar corner fillet should be formed at any internal corner junctions to allow ease of application of the membrane. Allow the mortar fillet to harden before application of the membrane.

Priming: Apply HYDROPRUFE PRIMER by roller, brush or spray application at a nominal rate of 6-8m² per ltr and allow to completely dry before the application of the membrane commences.

Application: The release paper should be removed from the first 500mm of the HYDROPRUFE 8000 membrane before being pressed firmly into position to ensure no air pockets are formed. Application of the roll is then completed by continuing to remove the release paper and applying pressure to ensure the membrane is well bonded to the substrate. Adjacent sheets of membrane should lap by a minimum of 50mm, this lap is an addition to any over-lap onto the seldge. Prior to lapping onto an adjacent sheet, the release strip protecting the seldge should be removed. Joints should be firmly rolled to ensure a watertight seal between the 2 sheets. The membrane should be immediately protected using PREMCRETE PROTECTION BOARD 600 to prevent damage during backfill or by following trades.



HARMONISED TECHNICAL SPECIFICATION

EN 13967:2013 PRODUCT TYPE T

PROPERTIES

Property	Test Method	Value
Water tightness to liquid water	EN 1928	Pass
Resistance to Static Load	EN 12730	20kg Pass
Tensile Properties, Maximum Tensile Stress CD	EN 12311-2	$\geq 2\text{N/mm}^2$
Tensile Properties, Maximum Tensile Stress MD	EN 12311-2	$\geq 2\text{N/mm}^2$
Tensile Properties, Elongation at Break CD	EN 12311-2	$\geq 120\%$
Tensile Properties, Elongation at Break MD	EN 12311-2	$\geq 120\%$
Durability of Watertightness against ageing	EN 13967:2012+A1:2017	Pass
Durability of Watertightness against Chemicals	EN 13967:2012+A1:2017	Pass
Resistance to Impact	EN 12691	$\geq 500\text{m}$
Resistance to tear (Nail Shank) CD	EN 12301 -1	$\geq 100\text{N}$
Resistance to tear (Nail Shank) MD	EN 12310 -1	$\geq 100\text{N}$
Reaction to Fire	EN 13501	Class F (Euro Class)
Joint Strength	EN 12317-2	$\geq 30\text{N}$
Water Vapour Transmission (Density Flow rate)	EN 1931	$0.013\text{ g}/(\text{day}\bullet\text{m}^2)$
Water Vapour Transmission (Resistance factor, μ)	EN 1931	$2380000\text{g } \mu$
Thickness	EN 1849-2	1.00mm
Mass	EN 1849-2	1100 g/M^2
Methane GTR	ISO 15105-1	$<10\text{ ml/m}^2.\text{day}$
Carbon dioxide GTR	ISO 15105-1	$<10\text{ ml/m}^2.\text{day}$
Radon Diffusion		$5.0 \times 10^{-14}\text{m}^2/\text{s}$
Roll Weight		33kg

Structural Waterproofing | Gas Protection | Concrete Repair
Technical Grouts | Joint Sealants | Protective Coatings | Admixtures

www.premcrete.com | 02380 276166 | sales@premcrete.com
44 Macadam Way, West Portway, Andover, Hampshire, SP10 3XW

PACKAGING & COVERAGE

Pack Size: HYDROPRUFE 8000: 1m x 20m roll.

HYDROPRUFE PRIMER: 5ltr and 25ltr cans.

ANCILLARY PRODUCTS

PROTECTION BOARD 600

HYDROPRUFE PRIMER

HYDROPRUFE TOPHAT

HYDROPRUFE PRE-FORMED CORNER PIECE

HYDROPRUFE DETAIL STRIP

COMPLIANCE

HYDROPRUFE 8000 is UKCA Certified.



STORAGE & SHELF LIFE

The membrane must be stacked vertically and in dry well-ventilated buildings, away from direct sunlight.

HEALTH & SAFETY

See separate material safety datasheet.



Premcrete Ltd | Reg no. 08079452 VAT no. 194306207

Structural Waterproofing | Gas Protection
| Concrete Repair Technical Grouts | Joint
Sealants | Protective Coatings | Admixtures

www.premcrete.com | 02380 276166 |
sales@premcrete.com | 44 Macadam Way,
West Portway, Andover, Hampshire, SP10
3XW

The information provided in this data sheet is intended for general guidance only and is given in good faith based on Premcrete Ltd current knowledge and experience. No warranty in respect of fitness for a purpose, or any other liability whatsoever can be inferred from the information contained within this datasheet. Users should determine the suitability of the materials for their particular application and should always refer to the most recent issue of the product data sheet for the product concerned. All materials are supplied in accordance with Premcrete Ltd Sales Terms & Conditions (available upon request and on Company Website).



HYDROPRUFE DPC

NON-COMBUSTIBLE POLYMER DAMP-PROOF COURSE

DESCRIPTION

HYDROPRUFE DPC is manufactured from co-polymer thermoplastic membrane and is designed to provide an effective barrier to rising damp and moisture as well as low levels of carbon dioxide and radon. It is effectively installed into masonry to form a damp-proof course or cavity tray. HYDROPRUFE DPC exhibits excellent tear resistance and provides a flexible yet robust barrier for use in conjunction with other PREMCRETE waterproof and gasproof membrane systems.

ADVANTAGES

- Pitch-free.
- Excellent resistance to radon and carbon dioxide gas.
- Excellent performance in high load situations.
- System components for all applications including standard and bespoke pre-formed pieces.

PROCEDURE

Surface Preparation: The substrate HYDROPRUFE DPC is to be installed shall be relatively smooth and free from excessive surface undulation.

Application: HYDROPRUFE DPC should extend through the full thickness of the wall and must be laid on an even bed of wet mortar. Special care should be taken to make sure that the HYDROPRUFE DPC does not become damaged or punctured during the construction phase. HYDROPRUFE DPC lap should be a

minimum of 100 mm and taped together using HYDROPRUFE HCR BUTYL TAPE. Cavity tray laps to pre-formed cavity tray units, must be a minimum of 100mm and bonded using HYDROPRUFE HCR BUTYL TAPE. PREMCRETE TERMINATION STRIP should be used when the construction program or the design requires the HYDROPRUFE DPC to be post or surface fixed to the cavity face of inner leaf. The surface should be first primed using HYDROPRUFE PRIMER before applying a line of HYDROPRUFE HCR BUTYL TAPE to the substrate. The HYDROPRUFE DPC should then be embedded into the tape and fixed securely using the PREMCRETE TERMINATION STRIP and suitable fixings at 300 mm centres.



PACKAGING & COVERAGE

HYDROPRUFE DPC is supplied in a 20 M roll in the following widths:

100mm
150mm
225mm
300mm
450mm
600mm
900mm

1000mm

HYDROPRUFE HCR BUTYL TAPE is supplied in 30 mm x 30m rolls.

STORAGE & SHELF LIFE

HYDROPRUFE DPC should be stored in cool dry conditions away from direct sunlight.

HEALTH & SAFETY

See separate material safety datasheet.



Premcrete Ltd | Reg no. 08079452 VAT no. 194306207

Structural Waterproofing | Gas Protection
| Concrete Repair Technical Grouts | Joint
Sealants | Protective Coatings | Admixtures

www.premcrete.com | 02380 276166 |
sales@premcrete.com | 44 Macadam Way,
West Portway, Andover, Hampshire, SP10
3XW

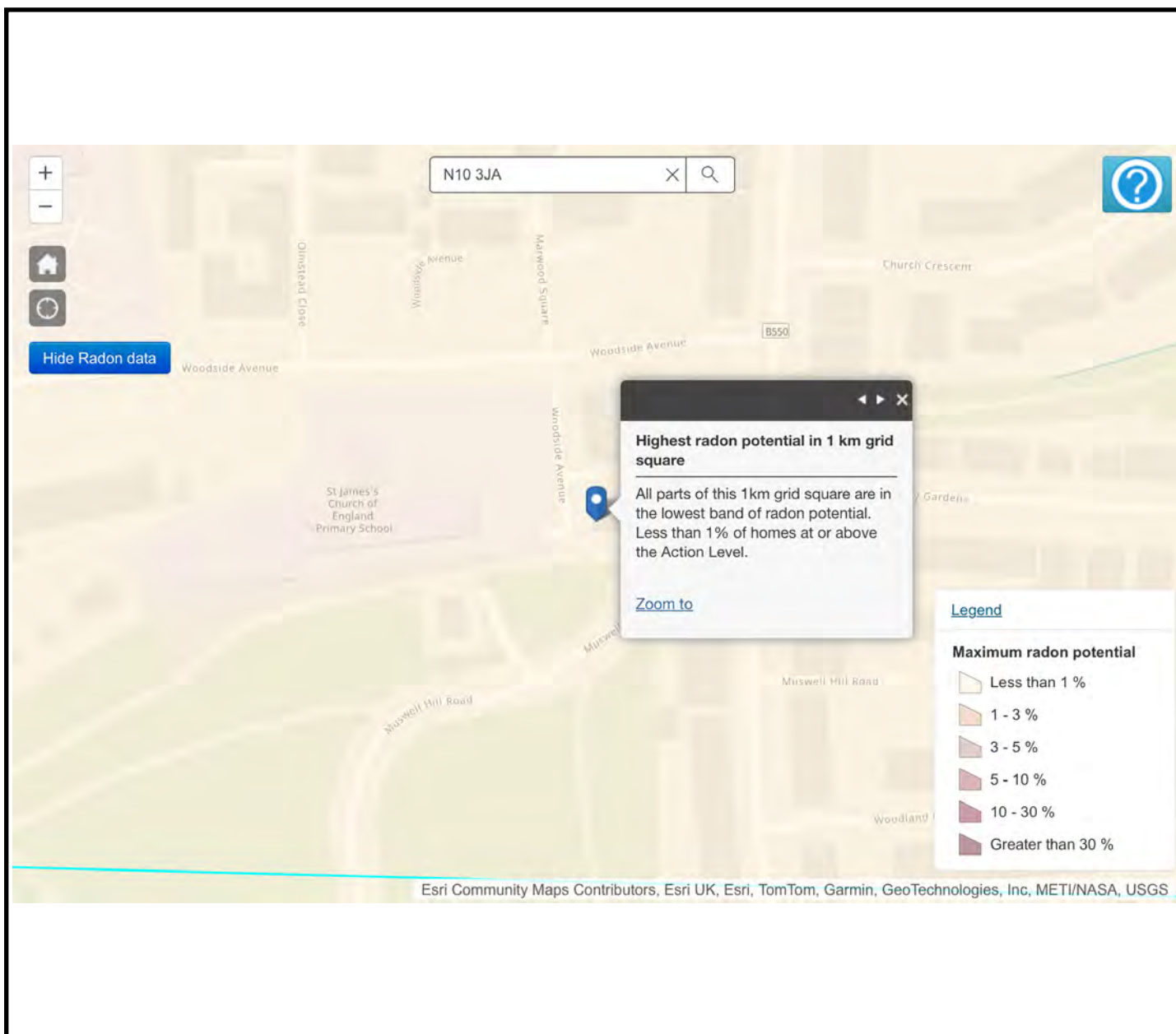
The information provided in this data sheet is intended for general guidance only and is given in good faith based on Premcrete Ltd current knowledge and experience. No warranty in respect of fitness for a purpose, or any other liability whatsoever can be inferred from the information contained within this datasheet. Users should determine the suitability of the materials for their particular application and should always refer to the most recent issue of the product data sheet for the product concerned. All materials are supplied in accordance with Premcrete Ltd Sales Terms & Conditions (available upon request and on Company Website).



GeoShield Verification Plan



RADON MAPS UK - (Map 1) Site Location



Maximum Radon Potential:

Less than 1%

Description:

No radon protection measures are required.

Postcode:

N10 3JA



GeoShield Verification Plan



CLIENT DETAILS

CLIENT CONTACT:	Reece Dangerfieldp
CONTACTS ROLE:	
MOBILE PHONE:	07432265502
EMAIL ADDRESS:	buying@konform.co.uk

CLIENT CONTACT:	
CONTACTS ROLE:	
MOBILE PHONE:	
EMAIL ADDRESS	
NOTES:	