TECHNICAL DATA SHEET

HYDROPRUFE LG



Liquid gas & waterproof coating

PREMCRETE

HYDROPRUFE LG





TYPE A — POST & PRE-APPLIED

WATER RESISTANT

GAS RESISTANT

RADON RESISTANT

VOC RESISTANT

BDA CERTIFIED

UK CA — UK CONFORMITY

25 YEARS — PRODUCT WARRANTY

DESCRIPTION

HYDROPRUFE LG is a two-part epoxy-based liquid membrane designed for application at structural interfaces such as pile caps, pile heads, ground beams and capping beams, for continuity of protection of these zones where a membrane cannot be installed. It is also suitable for application as a post-applied coating to existing and new concrete substrates such as internal coating applications to lift pits.
At structural interfaces a quartz aggregate is broadcast into the coating to maintain a comparable shear connection to concrete-to-concrete bond, eliminating the need to wrap pile caps and ground beams.

USES

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

HYDROPRUFE LG resists an impressive 5-Bar positive and negative water pressure, making it suitable for application internally to liftpits and internal 'Cut and carve' projects where an internal waterproof and gas resistant coating may be required.

HYDROPRUFE LG can also be applied as a 3-coat system with the final coating acting as a decorative / slip-resistant coating.

ADVANTAGES

- The only Agrément Certified (BDA) liquid coating to resist water, carbon dioxide, radon, methane & VOCs.
- Excellent adhesion to damp concrete.
- Strong resistance to positive & negative water pressure.
- Low viscosity for easy application.
- Solvent free and low odour.
- Test data confirming acceptability for use with pile caps.

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TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Standard	Value
Mechanical Damage - Static Indentation	EAD 030350-00-0402 Clause 2.2.7.2 & Annex 4.4	Pass/Watertight
Mechanical Damage - Dynamic Indentation	EAD 030350-00-0402 Clause 2.2.7.2 & Annex 4.3	Pass/Watertight
Tensile Properties	EN ISO 527-1 & EN ISO527-3	Mean Max stress:23.37N/mm^2 Mean Tensile Modulus: 676N/mm^2
Resistance to ageing (Heat)	EAD 030350-00-0402 Clause 2.2.10.1	Pass
Resistance to ageing (Water)	EAD 030350-00-0402 Clause 2.2.10.3	Pass
Watertightness	EN 1928 B	Pass @ 60KPa
Water Vapour Transmission	EN 1931 Method B	2.67×10^-9 kg/m²·s
Adhesion strength – pull off test	EN 1542	4.77 MPa
Reaction to Fire	EN 13501-1	Class B-s1, d0
Carbon Dioxide Permeability	ISO 15105-1	1.5 ml/m²·day·atm
Methane Permeability	ISO 15105-1	3.3 ml/m²·day·atm
VOC Resistance	ISO 15105-2	Pass
Shear resistance (control)		3.10N/mm^2
Shear resistance (coated substrate)		6.72N/mm^2

Further independent VOC Permeability Data available upon request

INSTALLATION 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 suitable fairing coat should be applied to achieve a sealed substrate.

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.

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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 and the surface should be prepared to achieved a closed, fair-faced finish.

HYDROPRUFE LG should be applied using a suitable brush, roller, or airless spray equipment and where a mechanical key is required, then the full quantity of quartz aggregate should be broadcast into the wet coating which the pack has coated. 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 8hrs at 20°C and hard dry after 24hrs at 20°C. Full cure will be achieved after 7 days cure at 20°C.

Equipment Cleaning
Tools and equipment should be cleaned immediately using PREMCRETE CLEANING SOLVENT.

PACKAGING & COVERAGE
Pack Size
5 ltr and 15 ltr 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:
5 Ltr – 4.5m²
15 Ltr – 13.5m²



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 Data Sheet..

ANCILLARY PRODUCTS



QUARTZ AGGREGATE

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