

TYPE B INTEGRAL WATERPROOFING

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PUDLO 2.5 CWP

PUDLO 2.5 CWP is a hydrophobic, pore-blocking admixture. A dual-purpose, multi-component powdered admixture comprising a powerful single dosage pack providing outstanding long-term durability and waterproofing properties to all concrete mixes.



USES

- Below ground structures (habitable and car parks) including lift pits, slabs, liner walls and capping beams
- Podium decks & green roofs
- Tunnels
- Liquid retaining structures (inc. swimming pools)
- Volatile ground conditions e.g., waste transfer stations

MIXING INSTRUCTIONS

- The dosage for PUDLO 2.5 CWP should be trialed first using site conditions and materials
- 1 x 2.5kg bag per m³ of concrete. Part loads must be rounded up to full bag dosage. Do not under dose
- Minimum Cement Content 350kg/m³
- Maximum Water Cement ratio 0.40
- Minimum Water Cement Ratio 0.35

APPLICATION & INSTALLATION

It's essential that good concrete practice is followed during the placement of the concrete. PUDLO 2.5 CWP should be fully compacted, and correctly cured in accordance with industry guidelines / standards. Failure to adhere to these guidelines may cause moisture or water ingress.

TECHNICAL SERVICES

For further assistance with any PUDLO products, we have a dedicated technical department that is TechICT / AMICT and CSSW accredited who are on hand to help with any technical queries. Please contact our technical team at: technical@pudlo.com.

BENEFITS

- Can be used as a single system waterproofing system
- Suitable for use with all CEM I mixes (100% OPC) and blended cement replacement mix designs using GGBS, PFA and Microsilica.
- Provides permanent significant reduction in permeability, reduction in carbonation of concrete, increases long-term durability
- Suitable for use with all structural concrete mixes including ready-mix, precast and spray applied application
- Reduces bleed, segregation, efflorescence, and staining
- Supplied in dissolvable paper bags
- Improves resistance to sulphate, chloride and chemical attack including leachates. Reduces shrinkage, enhances protection against frost attack, provides sound concrete for the protection of reinforcement steel

HEALTH & SAFETY

It is recommended that a P3 dust mask or similar respirator, protective gloves, eye protection, and protective work clothing are worn when using PUDLO 2.5 CWP.

Refer to MSDS for more information



STORAGE & SHELF LIFE

- Store in an area protected from frost, sunlight, and moisture. Please keep dry
- Recommended shelf-life for PUDLO 2.5 CWP is 12-months.
Note: this shelf-life is recommendation only. Please contact the PUDLO technical support team for more information at: technical@pudlo.com

PRODUCT DIMENSIONS, COVERAGE & PACKAGING

- PUDLO 2.5 CWP is packaged in 2.5kg bags. Bulk options are available – please contact us for details.
- 60 boxes to a pallet with 4 bags of PUDLO 2.5 CWP in each box. Each full pallet can provide waterproofing additive for 240m³ of concrete.

TECHNICAL DATA

EFFECTS OF PUDLO 2.5 CWP ON THE HARDENED PROPERTIES OF CONCRETE

Property	Control (plain) concrete	PUDLO 2.5 CWP	Test reference
Water vapour permeability (g m ⁻² 24h ⁻¹)	11.048	10.064	BS 1377
Water permeability (ms ⁻¹)	2.49x10 ⁻¹⁴	8.73x10 ⁻¹⁵	VINCI Technology Centre test procedure VTPN950/09/106010
Drying shrinkage (%)	0.037	0.034	BS 1881-5:1970
Wetting expansion	0.016	0.018	BS 1881-5:1970
Compressive strength (MPa) 28 days	60.2	58.8	BS EN 12390-3:2009
Capillary absorption (g.mm ⁻² x 10 ⁻³)			
7-day cure	0.0062	0.0030	BS EN 480-5
90-day cure	0.0132	0.0078	

PRODUCT NUMBER

4600/0002

**APPENDIX J: CONFIRMATION LETTERS ON REVIEW
OF BIA DOCUMENTS**

Mrs Asli Yetkin Karagul and Mr Taylan Karagul
161 Arlington Road
London, NW1 7ET

Our Ref.: 2388
Date: 21st November 2024



RE:REVIEW OF BIA – 161 ARLINGTON ROAD

To whom it may concern,

A Basement Impact Assessment has been carried out by Cochrane Construction Consultants (engineering consultants) for the above address. The BIA comprises the following three reports:

- Desk study: "161 ARLINGTON ROAD, LONDON NW1 7ET, Desk Study Report; Project Ref: S 2930; Rev: 01; Issue Date: November 2024"
- Screening and scoping: "161 ARLINGTON ROAD, LONDON NW1 7ET, Basement Impact Assessment Screening & Scoping Report; Project Ref: S 2930; Rev: 02; Issue Date: November 2024"
- BIA: "161 ARLINGTON ROAD, LONDON NW1 7ET, Basement Impact Assessment; Project Ref: S 2930; Rev: 02; Issue Date: November 2024"

Henry Kelly of HK Hydrology Ltd. has reviewed the surface water elements of these reports. Henry is a Chartered Water and Environment Manager (C.WEM) with the Chartered Institute of Water and Environmental Management and as such, has the credentials required to sign off this element of the report in accordance with the Camden Planning Guidance.

Having reviewed the surface water aspects of the BIA, it is accepted that the findings of the report are accurate and the basement is not expected to adversely impact the local hydrology.

Yours sincerely,

Henry Kelly (MSc, C.WEM)

DIRECTOR

Henry@HKHydrology.com

02392 067 334

Mrs Asli Yetkin Karagul and Mr Taylan Karagul
161 Arlington Road
London
NW1 7ET

Date: 27 November 2024

Our ref: 31005 L1

Dear Asli and Taylan

RE: REVIEW OF BASEMENT IMPACT ASSESSMENT (BIA) FOR 161 ARLINGTON ROAD, LONDON, NW1 7ET

A Basement Impact Assessment (BIA) has been carried out by Cochrane Construction Consultants (engineering consultants) for the above address. The BIA comprises the following three reports:

- Desk study: "161 ARLINGTON ROAD, LONDON NW1 7ET, Desk Study Report; Project Ref: S 2930; Rev: 01; Issue Date: November 2024"
- Screening and scoping: "161 ARLINGTON ROAD, LONDON NW1 7ET, Basement Impact Assessment Screening & Scoping Report; Project Ref: S 2930; Rev: 02; Issue Date: November 2024"
- BIA: "161 ARLINGTON ROAD, LONDON NW1 7ET, Basement Impact Assessment; Project Ref: S 2930; Rev: 02; Issue Date: November 2024"

I have reviewed the groundwater elements of these reports and conclude that the findings of the report are accurate. I am a Chartered Geologist (CGeol) and Fellow of the Geological Society of London (FGS) and have 40 professional experience as a hydrogeologist.

Yours sincerely

Joe Gomme (CGeol, FGS)

Associate Director

Geological Society No. 1004126



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