

TYPE B INTEGRAL WATERPROOFING

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 trialled 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 concreting practice is followed during the pouring of the concrete.

PUDLO 2.5 CWP should be placed, 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 as well as Cemfree mixes
- 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

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



TYPE B INTEGRAL WATERPROOFING

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-224h-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	