

PUDLO

CEMENT WATERPROOFING POWDER

DESCRIPTION

A multi-component, single pack, waterproofing, plasticising, permeability reducing, corrosion inhibiting admixture.
Outperforms any other admixture of its kind.

QUALITY ASSURANCE

PUDLO Cement Waterproofing Powder is a Quality Assured product produced under the quality standard BS EN ISO 9001: 2000.
PUDLO Cement Waterproofing Powder is BBA accredited holding Certificate No 01 / 3843.

USES

- Integral waterproofing of all concrete and cementitious based systems
- To reduce permeability, absorption and efflorescence
- To reduce water/cement ratio (up to 15%)
- To provide long-term concrete durability
- Applicable in all structural, readymix and precast concretes
- Internal curing mechanism
- To reduce shrinkage
- To inhibit corrosion (Factor of 5 reduction in chloride ingress)

BENEFITS

- Provides permanent reduction in permeability
- Reduction in carbonation of concrete
- Improves resistance to sulphate, chloride and chemical attack
- Enhances protection against frost attack
- Provides sound concrete for protection of reinforcement steel
- Increases ultimate compressive and tensile strengths without increase in cement content
- Reduces bleed and segregation
- Reduces efflorescence and staining
- Ready to use, readily dispersed powder, supplied in convenient pre-weighed bags
- Proven world-wide track record with over 100 year history

TECHNICAL DATA

Typical Performance - 350Kg/m³ PC with Thames Valley natural flint based aggregates

	Control (no admixture)	PUDLO concrete at 2%
Water Cement ratio	0.45	0.38
Slump mm	50	50
Water Sorptivity mm/min ^{1/2}	0.65	0.05
Water permeability m ² /s ⁻¹ x10 ⁻¹³	39.45	12.1
Oxygen Diffusion m ² /s ⁻¹ x10 ⁻⁸	0.83	0.71
Chloride Diffusion m ² /s ⁻¹ x10 ⁻¹³	2.05	0.42
7 day strength Mpa	33	52
28 day strength Mpa	43	61

Independent Test Data: Concrete Durability Group, Department of Civil Eng, Imperial College of Science, Technology and Medicine, LONDON, SW7 2BU



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DOSAGE AND MIXING INSTRUCTIONS

The optimum dosage of **PUDLO Cement Waterproofing Powder** to meet specific requirements should always be determined by trials using materials and conditions that will be experienced in use.

As a guide normal dosages of **PUDLO Cement Waterproofing Powder** should be in the range 2 – 3% by weight of cement. For example 1kg **PUDLO CWP** bag/50kg of cement.

To obtain maximum benefit it is recommended that the water cement ratio should not Exceed 0.40

With the correct dosage of **PUDLO Cement Waterproofing Powder** determined the required amount should be added to the mix, preferably with or immediately after cement addition.

The concrete or mortar produced must be thoroughly mixed until homogeneous.

It is essential that good concreting practice is performed and maintained at every stage of the application process.

PACKAGING AND SHELF LIFE

PUDLO Cement Waterproofing Powder is packaged in 1kg, 2kg, 8kg or 25kg bags.

The powder has a shelf life of 24 months minimum if stored in good conditions.

HEALTH AND SAFETY

PUDLO Cement Waterproofing Powder is non-toxic and safe to use. However, protective clothing and a dust mask should be worn while mixing and applying the material.

Health and Safety data sheet is available on request.



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