

Cemseal PU-W ECO

Seamless Quick-Drying Waterproofing System

cemseal[®]
Your Construction Chemical Partner

The Product

Cemseal PU-W ECO is a single component, ready to use, liquid applied waterproofing membrane. Cemseal PU-W ECO is newly developed of special bend of polymers and additives to provide an excellent seamless, elastomeric and quick-drying waterproofing membrane.

Cemseal PU-W ECO is a specially formulated single component black liquid applied seamless elastomeric flexible waterproofing materials for the waterproof to all masonry and concrete. Cemseal PU-W ECO has excellent crack bridging property.

Cemseal PU-W ECO fills and seals pores and voids for total protection against dampness and moisture penetration. It seals above and below grade on any masonry wall internally or externally against water and dampness. Protection against water damage, erosion, frost, spalling and weathering. Stop leaks on all kinds of cement based substrates.

Cemseal PU-W ECO provide strong adhesion, high water-tightness and keep water out of lift pits and machinery. It penetrates deep into pores of masonry and concrete, bond tightly whilst still permitting water vapour transmission.

Uses

- ◆ New or old masonry and concrete
- ◆ R.C Retaining, Basement walls & slab
- ◆ Terraces, balconies and patios
- ◆ Tanking to basement foundation and retaining walls against aggressive soil and water
- ◆ R.C. gutter and flat roof
- ◆ R.C. planter box and canopies
- ◆ Bathrooms, toilet, kitchen and services yards
- ◆ External decks, landscaped area
- ◆ Indoor floor damp-proofing & crack bridging
- ◆ Precast gable and wall

Advantages

- ◆ Quick drying and elastomeric seamless membrane
- ◆ Easy application, by brush or trowel or roller or spray
- ◆ Single component - ready to use
- ◆ High flexible and elastic property
- ◆ Excellent adhesion to all sound and prepared substrates such as concrete, mortar brickwork.
- ◆ Applied on damp substrate - walls and floors
- ◆ The softening point will not be further softened due.
- ◆ To hot and humid climate in tropical countries.
- ◆ Resistant to any bubbling or side osmosis.
- ◆ Fully bonded to substrate, water cannot flow underneath to the membrane.
- ◆ Phenomenon even submerge in water for a long time.
- ◆ Water based & environmental friendly.

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Technical & Physical Data

Colour	Black Liquid
Packaging	5kg/pail, 20kg/pail, 150kg/drum
Density	1.08
Elongation at break % (ASTM D412-1998a)	>'350%
Tensile Strength (ASTM D412-1998a))	>1.5N/mm2
Adhesion (ASTM D4541-1995)	>0.8N/mm2 on concrete
Shore Hardness at 2 hour cure (ASTM D2240-2000)	>30
Flash Point	Non-flammable (Water-Based)
Resistance to water penetration (DIN 1048 Pt 5:1991) 0.2kg/cm2 for 12 hours	No penetration
Crack Bridging (ASTM C836:1995)	1mm-2mm
Set to touch (ASTM D1640-1999)	<60mins with good ventilation
Shelf Life	12 months of kept in a cool dry sheltered place

Method of Statement

Substrate Preparation

- ◆ The surface to receive Cemseal PU-W ECO Seamless Quick-Drying waterproofing system shall be structurally sound and shall have a light steel-trowel followed by a fine hair broom or equivalent finish.
- ◆ The surface shall be dry, clean, even and free of cavities.
- ◆ All protruding tie rods and steel reinforcement shall be cut down to at least 25mm depth from the surface and shall be patched with an approved repair mortar.
- ◆ All voids, cracks and fillet edges, shall be repaired to ensure the surface is sound, even and clean.
- ◆ Interface between metal flashing and concrete may be sealed with Cemseal PU-W ECO reinforced by imbedding a wide strip of Cemseal F100 fiberglass matt.
- ◆ The applied waterproofing should be kept damp with mist spray if the weather is exceptionally hot and dry or cover with shed to avoid accelerated drying.
- ◆ All surface preparation shall be by the Main Contractor unless otherwise stated.
- ◆ Apply a minimum of two coats by a brush, roller, squeegee or spray with a coverage of 0.80kg/m². The application shall be done in a criss-cross manner between coats. Never apply more than 3kg/m2 of Cemseal PU-W ECO in one single layer
- ◆ Over coating shall be done after each coat is dried for approximately 45 minutes or more.
- ◆ Apply uniform in a continuous film to avoid thin spot. Care must be taken to ensure that pinholes and potholes are separated treated.
- ◆ Allow at least 4 hours curing of the finished coat (subject to touch dry) before laying screed or tiling.

Application

Cleaning

Due to high adhesion strength of the product even on metal, it is advisable to wash tools with water before the product sets. After setting, cleaning can only be achieved b mechanical means.

Others Application

To consult the local Cemseal's representative.

For Further Information

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First Aid

In case of contact with eyes, skin or body wash immediately with clean fresh water or stand under shower and wash off. In case of inhaling of vapor or ingestion remove to fresh air and do not induce vomiting. **Obtain immediate medical treatment.**

Statement of Responsibility

The technical information and application advice given in this Cemseal publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature no assumption can be made as to a products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user, is responsible for checking the suitability of products for their intended use.

Note

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