

Cemseal PU-W

Seamless PU Bituminous Waterproofing System

cemseal[®]
Your Construction Chemical Partner

The Product

Cemseal PU-W is a single component which is newly developed polymer of MMA, natural rubber and polyurethane combines with the reaction with asphalt and then being modified and further emulsified to form elastic waterproofing membrane.

Cemseal PU-W 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 has excellent crack bridging property.

Cemseal PU-W 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 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.
- ◆ Swimming pools and pool decks
- ◆ Water tanks and reservoirs

Advantages

- ◆ Easy application, by brush or trowel or roller
- ◆ 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.
- ◆ Phenomenon even submerge in water for a long time.
- ◆ Water based & environmental friendly.
- ◆ Fully bonded to substrate, water cannot flow underneath to the membrane.
- ◆ Compatible for use with moisture vapour barrier.

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Technical & Physical Data

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| Colour | Black Liquid |
| Packaging | 20kg/pail |
| Density | 1.08 |
| Elongation at break % (ASTM D 412) | 750% |
| Tensile Strength (ASTM D 412) | 1.3MPa (1300N/cm ²) |
| Water Vapour Transmission (WVT) (ASTM E96, Clause 4.2) | 2.4g;h.m ² |
| Hardness | 35 |
| Crack Bridging | 1mm |
| Tear Strength | 11 kgf/cm ² |
| 100% Modulus of Elasticity | 5.5 kgf/cm ² |
| Puncture | 1.6 kgf |
| Suitability for Using in Contact with Water Intended for Human Consumption | Complied with requirement of BS 6920:Part 1:Clause 5,6,8 |
| Shelf Life | 12 months of kept in a cool dry sheltered place |

Method of Statement

- Substrate Preparation** ♦ The surface to receive Cemseal PU-W Seamless PU Bituminous 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 surface preparation shall be by the Main Contractor unless otherwise stated.
 - ♦ 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 reinforced by imbedding a wide strip of 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.

- Application**
- ♦ Apply a minimum of two coats by a brush, roller or squeegee with a minimum coverage of 1.0kg/m². The application shall be done in a criss-cross manner between coats.
 - ♦ Never apply more than 3kg/m² of Cemseal PU-W in one single layer
 - ♦ Over coating shall be done after each coat is dried for approximately 4 hours 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 48 hours curing of the finished coat (subject to touch dry) before laying screed or tiling. Water ponding test can be conducted after the same duration.

Others Application To consult the local Cemseal's representative.

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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. |
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