

# Cemseal PU

Seamless PU Coating System

**cemseal**<sup>®</sup>  
Your Construction Chemical Partner

## The Product

Cemseal PU is a single component which is low viscosity polyurethane fluid that cure with the humidity in the atmosphere. It is an elastomeric hydrophobic polyurethane resin modified with special inorganic fillers that provide the product with the excellent weather, chemical, UV, mechanical and thermal resistance. It produces an tough elastic membrane with excellent adhesive adhesion to the different substrate.

Cemseal PU is a specially formulated single component liquid applied seamless elastic flexible waterproofing materials for the waterproof to all masonry, concrete and steel substrate. Cemseal PU has excellent crack bridging property.

Cemseal PU 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 substrates. Recommended for exposed use.

## Uses

- ◆ New or old masonry and concrete
- ◆ R.C. gutter and flat roof
- ◆ R.C. planter box, tubs and canopies
- ◆ Bathrooms, kitchen and services yards.
- ◆ Terraces, balconies, verandas and patios
- ◆ External decks, landscaped area, car parks and stadium stands.
- ◆ Platforms of bridges, irrigation channels
- ◆ Basement walls
- ◆ Tanking to basement foundation and retaining walls against aggressive soil and water.
- ◆ Cemseal PU is not recommended for swimming pools in contact with chemically treated water.

## Advantages

- ◆ Easy application, by brush or trowel or roller
- ◆ Excellent adhesion to all sound and prepared substrates on almost any surface, with or without special primers. (Special primers are available almost for every substrate)
- ◆ Excellent mechanical properties, high tensile and tear strength, abrasion resistance.
- ◆ Excellent weather and UV resistance. The white color reflects much of the solar energy and so reduces the internal temperature of the buildings considerably
- ◆ Phenomenon even submerge in water for a long time.
- ◆ To hot and humid climate in tropical countries.
- ◆ High flexible and elastic property
- ◆ Resistant to root penetration
- ◆ Resistant to any bubbling or side osmosis.
- ◆ Fully bonded to substrate, water cannot flow underneath to the membrane.

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## **Technical & Physical Data**

Specific Weight	1.3-1.4 gr/cm <sup>3</sup>
Hardness (Shore A)	70
Tensile Strength	>80 kg/cm <sup>2</sup> ( 8 N/mm <sup>2</sup> )
Elongation at break (25 <sup>o</sup> C)	>450%
Adhesion Concrete	>20 kg/cm <sup>2</sup> ( 2 N/mm <sup>2</sup> )
Water Vapour Transmission of Materials	1.00 g/m <sup>2</sup> /hr
Tack Free Time	6 hour
Recoat Time	6 to 24 hours
Packaging	25 kg/pail
Colour	White, grey and other colour upon
Shelf Life	12 months of kept in a cool dry sheltered place

## **Method of Statement**

Substrate Preparation	<ul style="list-style-type: none"><li>◆ The substrate to receive Cemseal PU Seamless PU Coating system shall be structurally sound and shall have a light steel-trowel followed by a fine hair broom or equivalent finish.</li><li>◆ The surface shall be dry, clean, even and free of cavities.</li><li>◆ 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.</li><li>◆ All surface preparation shall be by the Main Contractor unless otherwise stated.</li><li>◆ All voids, cracks and fillet edges, shall be repaired to ensure the surface is sound, even and clean.</li><li>◆ Interface between metal flashing and concrete may be sealed with Cemseal PU reinforced by imbedding a wide strip of fiberglass matt.</li></ul>
Primer	<ul style="list-style-type: none"><li>◆ Apply one coat of primer by a brush, roller or spray. (Type of primer to be consult the local Cemseal's representative)</li></ul>
Application	<ul style="list-style-type: none"><li>◆ Use a low speed (300rpm) electric drill for mixing</li><li>◆ Apply a minimum of two coats by a brush, roller or spray with a minimum coverage of 1.20 to 1.50 kg/m<sup>2</sup>. The application shall be done in a criss-cross manner between coats.</li><li>◆ Over coating shall be done after each coat is dried for approximately 4 hours or more. Do not leave more than 48 hours between coats. If more time passes (for example more than 4 days) or if you are afraid of the interlayer adhesion, use primer.</li><li>◆ Apply uniform in a continuous film to avoid thin spot. Care must be taken to ensure that pinholes and potholes are separated treated.</li><li>◆ 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.</li></ul>
Precautions	<ul style="list-style-type: none"><li>◆ Cemseal PU contains volatile flammable solvents. No smoke.</li><li>◆ Apply in well-ventilated area and far away from naked flames.</li><li>◆ In closed areas use force ventilation and carbon active masks.</li><li>◆ Keep in mind that solvents are heavier than air so they creep on the floor.</li></ul>
Limitation	<ul style="list-style-type: none"><li>◆ Do not apply over moisture, in damp or wet concrete or rising dampness conditions.</li></ul>

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### **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**

Field service where provided, does not constitute supervisory responsibility. Suggestions made by Cemseal either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Cemseal are responsible for carrying out procedures appropriate to a specific application.

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