

# Cemseal E600PUA

Polyurea Coating System

**cemseal**<sup>®</sup>

Your Construction Chemical Partner

## The Product

Cemseal E600PUA is a pigmented, solvent free, wear & tear resistant, impact resistant, chemical exposure, two component aromatic pure polyurea coating designed for using as a floor or wall coating for protection and waterproofing.

A non-yellowing top coating is recommended for the area where color stable finishes is required. Its finishing is glossy and available in a wide range of attractive colours. (Subject to high wear conditions)

## Uses

- » Indoor and outdoor floor slab
- » Potable water tank lining
- » Sewage treatment plants
- » Waste water tanks
- » Water theme park
- » Waterproofing
- » Anti-corrosion coating for buried and submarine steel pipes
- » Secondary containment for chemical tanks
- » Lining on concrete or brick wall to prevent fragmentation during explosion

## Advantages

- » Excellent abrasion and wear resistance against traffic
- » Seamless and monolithic application
- » High elastic - crack bridging on concrete surface
- » Good chemical resistance to wide range of chemicals (Subjected to approve by Cemseal Technical advice)
- » Non-skid
- » Fast setting (Touch dry in few seconds)

## Technical & Physical Data

Colour	Grey / Other RAL colour supplied on request
Mixing ratio	1 to 1 by volume
Elongation (ASTM D412)	> 400%
Tensile strength (ASTM D412)	> 20 N/mm <sup>2</sup>
Tear Strength	> 75 N/mm
Abrasion resistance	< 0.02 g /1000cycles
Hardness (ASTM D2240)	40 to 50 Shore D
Vapour Transmission	50 /g /m <sup>2</sup> /day
Number of coats	One (1) or Two (2) Coats
Recommended thickness	1 to 3mm thick
Theoretical coverage	1kg / m <sup>2</sup> / mm thick
Volume solid	100%
Pot life	10 to 15 seconds
Tack free time	30 seconds
Full cure	3 days
Packaging	20kg, 200kg per component
Shelf Life	6 months of kept in a cool dry sheltered place

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## Method of Statement

### Substrate Preparation

**NEW CONCRETE :** The surface must be firm, dry, clean, free of dirt, oil, grease and all other foreign matter. The age of new concrete must be at least 28 days and a minimum tensile strength of 200 psi is required of the prepared surface before coating. Mechanical methods such as sandblasting, scarifying or shot blasting should be carried out to remove the weak layer of surface laitance.

**EXISTING CONCRETE :** The surface must be existing structurally sound, dry and free of all contaminants. Weak or contaminated concrete must be removed until sound concrete is realized. Old coatings, toppings, waxes, oils etc. must be removed by mechanical methods.

**STEEL SURFACE :** The surface shall be free from oil and grease. The surface to be coated shall be dry abrasive blasted to Sa2.5 in accordance with ISO8501-1.

Moisture content of the surface should not exceed 5%

### Priming

Apply by roller one coat of Epoxy Penetrating Primer.

### Application

The material is designed for application with heated, plural component airless spray equipment. The transfer pump of at least 1:1 ratio are required to prevent cavitations of the proportioning pump. Due to the relatively high viscosity and fast reactivity of the material, pressure of at least 2000 psi are required to ensure satisfactory mixing.

### Cleaning

All tools, equipments and surrounding areas can be cleaned with solvent before the product set. Hardened material has to be mechanically removed.

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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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