

Cemseal E100PU-Top

Polyurethane Coating System

cemseal[®]
Your Construction Chemical Partner

The Product

Cemseal E100PU-Top is a pigmented, color and UV stable, weather resistant, wear resistant, single component aliphatic polyurethane coating designed for using as a floor or deck top coating for protection over exposed waterproofing coatings. It makes the floors dust-free, easily cleanable, joint-less and good abrasion resistance. Its finishing is glossy and available in a wide range of attractive colours. (Subject to high wear conditions)

When waterproofing system is required, Cemseal PU or other equal could be used and coated over with Cemseal E100PU-Top.

Uses

- » Exposed carparking areas
- » High public pedestrian trafficking areas
- » Stadiums
- » Warehouse floor
- » Re-surfacing of factory floors
- » Other industrial sectors where a clean working environment is required

Advantages

- » Excellent abrasion and wear resistance against traffic
- » Excellent UV, color and weather resistance
- » Seamless and monolithic application
- » Economical to use due to its easiness and time saving
- » Good workability for easy and fast application
- » Good chemical resistance to wide range of chemicals (Subjected to approve by Cemseal Technical advice)

Technical & Physical Data

Colour	Grey / Other RAL colour supplied on request
Elongation at break (25 ^o C)	>100%
Hardness (Shore D Scale)	30
UV Stability	Excellent
Resistance to Water Pressure	No leak (1m water column, 24h)
Application Temperature	5 ^o C to 35 ^o C
Pot Life at 25 ^o C	20 minutes
Tack Free	4 hours
Light Pedestrian Traffic	12 hours
Fully Cured	7 days
Coverage	400gr to 600gr per m2 in two layers onto a smooth and sound substrate
Packaging	5kg, 20kg
Shelf Life	12 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. Acid etching is possible but less desirable. Care must be taken to ensure all residue acid must be removed with clean water before priming.

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 or acid etching before priming. Acid etching is possible but less desirable.

Moisture content of the surface should not exceed 5%

Application

Stir well before the application. Apply Cemseal E100PU-Top over Cemseal PU by roller or airless spray in two layers.

Apply Cemseal E100PU-Top onto the prepared floor and an intermittent period of 3-6 hours should be allowed prior to the subsequent coats. Cemseal E100PU-Top polyurethane resin coating can be applied either by roller, sprayer or brush.

For best results, the temperature during application and cure should be between 5°C and 35°C. Low temperatures retard cure while high temperature speed up curing. High humidity may affect the final finish.

Limitation

Do not apply over moisture, in damp or wet concrete or rising dampness conditions. Do not thin with solvents.

The application of Cemseal E100PU-Top is not possible at below 5°C and on frozen surface.

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.
