

Cemseal E200PU-M

Heavy Duty Self-Smoothing Polyurethane Floor Topping

cemseal[®]
Your Construction Chemical Partner

The product

Cemseal E200PU-M is an-situ applied polyurethane resin base floor topping designed for use at a thickness of 3mm to 6mm. It is a 3-part, high strength, excellent durability and subject to heavy loading, abrasion, impact and chemical exposure resistance.

Uses

Cemseal E200PU-M is ideal for food manufacturing and chemical plants. It is most suitable for areas subjected to traffic and chemical exposure :

- » Food & beverage industry
- » Chemical processing plants
- » Engineering workshops
- » Pharmaceutical plants
- » Wet areas / fish market
- » Heavy duty new / old factory floors
- » Warehouse & logistics areas
- » Re-surfacing of factory floors

Advantages

- » Excellence Chemical Resistance
- » Seamless-prevents ingress of chemicals into the substrate.
- » Hygienic finish-no crevices where dirt and bacteria can growth
- » Good impact and abrasion resistance
- » Easy to clean, low maintenance requirement
- » Temperature resistant 0⁰C to 60⁰C
- » Non-skid surface, seamless matt and smooth finish

Technical & Physical Data

Compressive Strength	> 50 N/mm ²	
Flexural Strength	> 15 N/mm ²	
Tensile Strength	> 10 N/mm ²	
Components	3 components	
Packaging	Component A + B + C	: 20 kg/set
Color	Component A	: Liquid / Standard color chart
	Component B	: Liquid / Clear
	Component A + B	: See separate color chart
Coverage	1.90 - 2.00kg/m ² /mm	
Pot Life at 30 ⁰ C	<15 minutes	
Curing Details at 30 ⁰ C	Foot traffic	: 1 days
	Light traffic	: 2 days
	Full cure	: 7 days
Application temperature	10 ⁰ C to 30 ⁰ C	
Water absorption	0%	
Shelf Life	6 months from the date of production (kept in a cool dry sheltered place, in original, unopened, undamaged sealed packaging)	

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Method 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 scarifying, sand blasting 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.

The moisture content of the concrete shall be less than 6% and the substrate pull-off strength should not be below 1.5 N/mm².
The relative humidity of the concrete floor must not be exceed 85%.

Priming

Cemseal P100WB epoxy primer should be applied to the prepared surface using a soft brush, roller or a primer pump.

Mixing

Cemseal E200PU-M is supplied in pre-weighed and blended units. It should be mixed in a suitable rotating drum mixer. Pour the hardener (Part B) into the resin container (Part A). Mix the resin and the hardener thoroughly, and then pour slowly with continuous mixing into the blended fillers. Continue until a uniform moist mix is obtained.

Application

Pour the mixed material on to the primed substrate, spread with a trowel or squeegee to the desired thickness and coverage rate and allow it to self-smooth. The material must be rolled with a spike-roller on completion to remove and release any air entrapped in the system. Rolling must be done immediately after placing the material. Do not attempt to float the setting surface.

Limitation

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

The application of Cemseal E200PU-M is not possible at below 10°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

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