

Cemseal E200PU-H

Heavy Duty Polyurethane Floor Screed

cemseal[®]
Your Construction Chemical Partner

The product

Cemseal E200PU-H is an-situ applied polyurethane resin base floor screed designed for use at a thickness of 5mm to 9mm. It is a 3-part, high strength, excellent durability and subject to heavy loading, abrasion, impact, thermal shock and chemical exposure resistance.

Uses

Cemseal E200PU-H 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
- » Cold rooms

Advantages

- » Excellence Chemical Resistance
- » Seamless-prevents ingress of chemicals into the substrate.
- » Hygienic finish-no crevices where dirt and bacteria can growth
- » High impact and abrasion resistance
- » Easy to clean, low maintenance requirement
- » Temperature resistant -40°C to 100°C
- » Non-skid surface, seamless matt.
- » Thermal shock resistance (for example steam cleaning)

Technical & Physical Data

Compressive Strength	> 50 N/mm ²	
Flexural Strength	> 15 N/mm ²	
Tensile Strength	> 5 N/mm ²	
Components	3 components	
Packaging	Component A + B + C	: 30 kg/set
Color	Component A	: Liquid / Standard color chart
	Component B	: Liquid / Clear
	Component A + B	: See separate color chart
Coverage	2.00 - 2.30kg/m ² /mm	
Pot Life at 30 ⁰ C	<10 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%	
Slip Resistance Pendulum Slip Test		: Wet 50-60
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 10% 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%.

To ensure maximum bonded to the substrate, retaining slots of 8mm deep x 8mm wide are required running at 150mm from and parallel to the wall. Retaining slots are also recommended at day joints

Priming

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

Mixing

Cemseal E200PU-H 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 and level with a steel trowel or squeegee to the desired thickness and coverage rate and light back rolling with a short mohair roller is recommended.

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-H is not possible at below 10°C and on frozen surface.

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