

Cemseal E500SL

Heavy Duty Epoxy Floor Mortar Screed System

cemseal[®]
Your Construction Chemical Partner

The product

Cemseal E500SL is an-situ applied epoxy resin base floor screed designed for use at a minimum thickness of 3mm. Cemseal E500SL consists of graded quartz aggregate together with epoxy resin binder.

The full system comprises :-
Cemseal P100SL epoxy primer A and B
Cemseal E500SL epoxy resin binder A and B
Cemseal E500SL quartz aggregate

Uses

Cemseal E500SL is most suitable for

- » Heavy duty new / old factory floors
- » Warehouse floor
- » Re-surfacing of factory floors
- » Any other typical floors that require another term of floor life.
- » Such as palm oil mills, chemical laboratories and plants, hospitals, food and meat processing plants, physical traffic and chemical aggressive environment

Advantages

- » High compressive strength
- » Abrasion and impact resistance
- » Chemical resistance
- » Dust free and non slip floor
- » Durable
- » Easy to keep clean

Technical & Physical Data

Compressive Strength	70 N/mm ²	
Flexural Strength	15 N/mm ²	
Fully cured	7 days	
Colour	Component A	: Liquid / Standard colour chart
	Component B	: Liquid / Clear
	Component A + B	: See separate colour chart
Packaging	- Primer	Component A + B : 5 kg / set
	- E500SL	Component A + B + C : 40 kg / set
Coverage	- Primer	200g / coat / m ²
	- E500SL	2.00kg / m ² / mm
Pot Life at 30°C		25 minutes
Shelf Life		12 months of kept in a cool dry sheltered place

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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. Ventilation in the work area is necessary but windows and opening must be closed sufficiently to avoid draughts during and after application indoor and floor temperature must exceed 10 °C during the application and one week after that. The relative humidity of the concrete floor must not be exceed 95%.
Priming	Cemseal P100SL epoxy primer should be applied to the prepared surface using a soft brush, roller or a primer pump.
Mixing	Cemseal E500SL is supplied in pre-weighed and blended units. The mortar should be mixed in a suitable rotating drum mixer. Pour the blended filler (Part C) into the mixer and dry mix for 3 - 4 minutes. 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. Run the mixer until complete mixing has been achieved.
Application	The mixed mortar screed must be placed immediately onto the primer whilst the primer is still wet. Spread the mortar to the desired thickness using a rake screed bar or trowel. Compact the mortar and close the surface using hand trowels. Mechanical power trowelling to be used when necessary.
Limitation	Do not apply over moisture, in damp or wet concrete or rising dampness conditions. Do not thin with solvents. The application of Cemseal E500SL is not possible at below 15 °C and on frozen surface.

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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.
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