

# Cemseal E100CR

High Performance Chemical Resistance Epoxy Coating

**cemseal**<sup>®</sup>  
Your Construction Chemical Partner

## The Product

Cemseal E100CR is a 100% solid, pigmented, two component solvent-less epoxy coating. It is highly chemical resistant to acids, alkalis and a wide range of chemicals.

Cemseal E100CR is designed for using as a concrete and steel protective coating as the thickness of 0.3mm-1.0mm. Specially in extremely corrosive areas where resistance to 99% Glacial Acetic Acid and 70% Sulfuric Acid or other strong caustics is needed. It makes the industrial floors dust-free, easily cleanable, joint-less and good abrasion resistance.

## Uses

- » Food & beverage industry where using high concentrate organic acid for cleaning process.
- » Chemical Processing Plants
- » PCB / Electroplating Plants
- » Pulp Mills Secondary Containment Plants
- » Waste Treatment Plants
- » Gas and Electric Utilities
- » Other industrial sectors where a chemical resistant environment is required

## Advantages

- » Exhibits excellent resistance to strong acids, alkalis, and most industrial chemicals and solvents
- » High mechanical loading capacity
- » Seamless and monolithic application
- » Economical to use due to its easiness and time saving
- » Good workability for easy and fast application  
( Subjected to approve by Cemseal Technical advice )
- » Prepackaged for accurate on-site mixing

## Technical & Physical Data

Colour	Green and Yellow
Packaging	20kg/set - Component A + B
Coverage	0.30mm thick - 0.40kg/m <sup>2</sup> 1.00mm thick - 1.25kg/m <sup>2</sup>
Solid Content	100%
VOC Content	0%
Hardness (Shore D)	85
Compressive Strength	68 N/mm <sup>2</sup>
Abrasion Resistance	30mg
Pot Life at 25°C	20 minutes
Curing Time at 25°C	Foot Traffic : 24 hours Fully Cured : After 7 days
Thinner / Cleaner	Xylene or M.E.K. Solvent
Shelf Life	12 months of kept in a cool dry sheltered place

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## Method of Statement

Substrate Preparation	<p>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 short blasting, scarifying or sand blasting should be carried out to remove the weak layer of surface laitance.</p> <p>EXISTING CONCRETE : The surface must be existing structurally sound, dry and free of all contaminants. Weak or contaminated concrete must be remove until sound concrete is realized. Old coating, toppings, waxes, oils etc must be removed by mechanical methods.</p>
Priming	Apply by roller one coat of Epoxy Penetrating Primer. On porous or uneven substrate, epoxy mortar or epoxy filler coat to be applied prior to protective coating, to prevent the bubbles.
Mixing	Cemseal E100CR is supplied in pre-weighed and blended units. First pour the liquid Component A into a suitable container and stir with a slow speed paddle stirrer. Slowly, add Component B until a consistent colour is achieved.
Application	<p>Apply the mixed Cemseal E100CR compound onto the prepared floor and an intermittent period of 8 hours should be allowed prior to the subsequent coats. Cemseal E100CR epoxy resin coating can be applied either by roller, spray or brush.</p> <p>For Self-Smoothing 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-level. The material must be rolled with a spike-rolled 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.</p>
Limitation	<p>Do not apply over moisture, in damp or wet concrete or rising dampness conditions. Do not thin with solvents.</p> <p>The application of Cemseal E100CR is not possible at below 15°C and on frozen surface.</p>

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<b>For Further Information</b>	<b>Cemseal Industries Sdn Bhd</b> (Company No. 884153-T) No. 9 & 11, Jalan Besi, Taman Sri Putri, 81300 Skudai, Johor, West Malaysia. Tel : 607-558 3320, Fax : 607-556 9127, E-mail : info@cemseal.com.my
<b>First Aid</b>	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. <b>Obtain immediate medical treatment.</b>
<b>Statement of Responsibility</b>	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.
<b>Note</b>	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.

# Cemseal E100CR

## Chemical Resistance Chart

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Chemical	Concentration %	Temperature °C	Cemseal E100CR Performance
Acetaldehyde	100	20	R
Acetic Acid	10	20	R
Acetic Acid	10	80	R
Acetic Acid	20	20	R
Acetic Acid	20	80	R
Acetic Acid	60	20	R
Acetic Acid	100	20	R
Acetic Anhydride	-	20	R
Acetone	100	20	R
Acetonitrile	100	20	R
Acrylic Acid	100	20	R
Adipic Acid	All	20	R
Aluminum Chloride	All	20	R
Aluminum Sulphate	All	20	R
Ammonia (Ammonium Hydroxide)	10	20	R
Ammonia (Ammonium Hydroxide)	25	20	R
Ammonium Nitrate	All	20	R
Ammonium Phosphate	All	20	R
Ammonium Sulphate	All	20	R
Amyl Acetate	100	20	R
Aniline	100	20	R
Antifreeze (Ethylene Glycol)	100	20	R
Apple Juice	-	20	R
Barium Chloride	All	20	R
Barium Sulphate	All	20	R
Beer	-	20	R
Benzaldehyde	100	20	R
Benzene	100	20	R
Benzoic Acid	100	20	R
Benzoyl Chloride	100	20	L
Benzyl Alcohol	100	20	R
Blood	-	20	R
Boric Acid	All	20	R
Brake Fluid	-	20	R
Brine - Chlorinated	All	80	R
Brine - Sodium Chloride	All	20	R
Butanol	100	20	R
Butter	-	20	R
Butyl Acetate	100	20	R
Butyric Acid	100	20	R
Calcium Chloride	All	20	R
Calcium Hydroxide	All	20	R
Calcium hypochlorite	All	20	R

NOTE : R - Resistance  
L - Limited Resistance  
NR - No Resistance

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