



TECHNICAL DATA

Revised Date: 01/2008
Replaces Date: 08/2005

CS 2000 EPOXY CONCRETE SEALER

Product Description

A 100% solids, two component, low viscosity, clear epoxy for sealing, waterproofing and protecting concrete. May be used alone or as a primer for epoxy or urethane topcoats.

Features

- Low viscosity achieves 100% contact and penetration of prepared substrates.
- Excellent adhesion to new or old concrete.
- Easily applied by spray, brush, roller or squeegee.
- Dry temperature resistance to 125°F.

Recommended Uses

- Protect and seal concrete floors, masonry and wood surfaces.
- Seal and waterproof concrete tanks.
- Prime concrete, masonry or wood surfaces prior to the application of epoxy or urethane topcoats.
- **Not recommended for metal surfaces unless a rust inhibitive primer is used.**

Chemical Resistance

Sulfuric acid 10%	E	Water	E
Sulfuric Acid 70%	VG	Deionized water	VG
Sodium Hydroxide 50%	E	Xylene	E
Sodium Hypochlorite 10%	E	Kerosene	E
Lactic Acid 10%	VG	Propylene Glycol	E
Saturated Salt Solution	E	ASTM #3 Oil	E

E= Excellent VG = Very Good
7 day room temperature cure, 30 days immersion @ 75°F.

Typical Properties

Solids by Volume	100%
Volatile Organic Compounds	0.0 lb/gal (0 g/l)
Theoretical Coverage	1604 ft ² @ 1 mil
Recommend DFT	4 mils (100 μ)
Number of Coats	1
Mix Ratio (by volume)	1.92 "R" : 1 "H"
Shelf Life @ 60-90°F (16-32°C)	Part A months Part B months
Color	Clear

Specification Data

Mixed Viscosity @ 75°F	1400 cps
Compressive Strength @ yield	14000 psi
Compressive Modulus	384000 psi
Tensile Strength	8000 psi
Tensile Modulus	282000 psi
Hardness	83 Shore D

Ordering Information

Packaging:	2 gal Kits
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APPLICATION INFORMATION

CS 2000

Surface Preparation

Remove all oil, grease or other contaminants from the surface to be coated in accordance with SSPC-SP 1.

Concrete: Must be cured a minimum of 28 days at 70°F (21°C) and 50% RH, or equivalent. Remove fins and other protrusions by stoning or grinding. Abrasive blast in accordance with SSPC-SP 13 or ASTM D4258 to open all surface voids and remove all form oils, incompatible curing agents, hardeners, laitance, other foreign materials and produce a angular surface texture similar to that of medium grit sandpaper. Blow or vacuum off abrasive and dust.

Holes and cracks larger than 1/8" should be filled prior to application.

Other: Contact ITW Futura Coatings for specific recommendations.

Mixing

Add hardener to resin. Power mix thoroughly with a Jiffy mixer for 3-4 minutes until the consistency is uniform. Be sure to scrape material from the sides and bottom of the mix bucket.

It is strongly recommended that mixing be limited to full kits only. If mixing less than full kits mix by volume as follows: 1.92 parts Resin to 1 part Hardener.

Thinning

DO NOT THIN

Pot Life

Material Temperature	Time
75°F (24°C)	25 minutes

Application Conditions

	Normal	Minimum	Maximum
Material	75-90°F (24-32°C)	50°F (10°C)	90°F (32°C)
Surface	75-90°F (24-32°C)	50°F (10°C)	110°F (43°C)
Ambient	75-90°F (24-32°C)	50°F (10°C)	90°F (32°C)
Humidity	30-50%	0%	85%

Surface temperature must be 5°F (3°C) above the dew point. Do not apply under direct sunlight or during periods of increasing substrate temperature.

Application Equipment

Airless:

Pump Ratio	30:1 min	Tip Size	.018 - .021"
Material Hose	3/8" ID min 100' max	Tip Pressure psi	2500 - 2800

Brush:

Roller: Short to medium nap with phenolic core.

Clean Up

Use MEK or a 1:1 blend of MEK and Toluene

Cure Time

These times are based on a 30-50% RH. Excessive film thickness, cooler temperatures or inadequate ventilation will require longer cure times and could result in premature failure.

Surface Temperature

	75°F
Working Time	30 minutes
Set Time	8 hours
Recoat (min)	8 hours
Recoat (max)	24 hours
Functional Cure	36 hours
Full cure	7 days

- If the material has exceeded its maximum recoat time or full cure time contact ITW Futura Coatings for recommended recoating procedures.

Safety Information

- Read the Material Safety Data Sheet (MSDS) and container labels for detailed health and safety information.
- Do not apply material in enclosed areas without adequate air exchange and ventilation.
- All application personnel must use respirators rated for organic vapors, or in confined spaces wear fresh air respirators or fresh air hoods.
- Wear protective clothing, gloves and eye protection.
- Breathing fumes or contact with the skin may cause severe allergic reactions.
- **This product is intended for industrial use by properly trained professional applicators only.**

Storage Conditions

- Coatings need to be protected from moisture contamination. Store drums and pails in a dry location at 50-90°F (10-32°C).
- Materials must be kept above 50°F (10°C).

ITW FUTURA COATINGS, 1685 GALT INDUSTRIAL BLVD., ST LOUIS, MO, (314) 733-1110

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