

Technical Data Product Information

**CS 1777**  
**Penetrating Sealer - Water Based Epoxy**

**Description**

CS 1777 is a two component, epoxy dispersion of medium molecular weight coating. This system actually reinforces the concrete flooring surface because its viscosity is like water allowing it to penetrate deep into the porous concrete surface. It becomes an integral part of the concrete, seals the surface, and forms a strong foundation. CS 1777 can be used as a one-coat system to permanently stop dusting.

**Color**

CS 1777 is amber clear, it is not pigmented. Installs as a milky white.

**Limitations**

- Where floor temperatures are below 65°F or above 80°F during application. For lower/higher temperatures contact CornerStone's Technical Department.
- For on-grade installations that do not have a vapor barrier under the slab or in areas where high water table or hydrostatic pressure conditions are present.
- Areas subject to strong chemicals.
- On a structurally unsound substrate or impossible to clean substrates.
- Avoid exposure from sunlight or other high UV output lighting.

ADVANTAGES	APPLICATIONS
• Deep Penetrating Into Concrete	• Warehouses
• Low Temperature Cure	• Machine Shops
• Extended Working Time	• Storage Areas
• Easy To Clean	• Auditoriums
• Moisture Tolerant	• Areas Requiring Dust Control

**Installation Procedures**

CS 1777 APPLICATION

1. Mix and stir well until homogeneous. No induction time required.
2. Up to 20% water can be added to lower viscosity for thinner films.
3. CS 1777 can be applied by spray, brush, roller, or squeegee. Spread evenly leaving no pooled areas of coating. Wet film thickness - 1.5 mils.
4. CS 1777 should be top-coated with epoxy or polyurethane coating within 6 to 18 hours after application to insure excellent chemical binding and inter-coat adhesion between CS 1777 and topcoat.

**Chemical Resistance**

Refer to the Chemical Resistance Guide for specific chemical resistance information or contact CornerStone's Technical Department.

**Cure Schedule**

At an ambient temperature above 70°F, CS 1777 can support foot traffic within 5 hours, full usage after 24 hours.

**Maintenance**

Regular cleaning and maintenance will prolong the life of all polymer flooring coatings and enhance their appearance.

**Safety**

Avoid personal exposure. Refer to MSDS for additional safety information.

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**Test Data**

PROPERTIES	TYPICAL RESULTS	TEST METHOD
Bond Strength	325 psi	ACI Bulletin #59043
Pencil Hardness	B	ASTM D-3363
Direct Impact Resistance	84 in. lbs.	ASTM G14
Abrasion Resistance (Taber Abrader Test—Using two CS 17 wheel with 1000 gram	0.09 gms load on each wheel for 1000 revolutions)	ASTM D-4060
Coefficient of Friction	0.6 (Over CS 3000)	ASTM D-2047
Service Temperature	200°F	
Flexibility	Passes	ASTM D-1737