

# Infinity Clear Epoxy

## Versatile Epoxy Coating System

### Description

Infinity Clear Epoxy is a uniquely versatile 3:1 epoxy coating system that balances working and cure time. Infinity Clear Epoxy is a clear two component thermosetting, low odor, 100% solids epoxy designed as a coating system for various conditions and substrates.

### Benefits

- Up to 30+ Minute Working Time
- Hard-Cure - Screened or Sanded Next Day
- Lower Temperature Cure
- Primer, Binder, and Grout Coat
- Universal Colors
- Can be applied to concrete with moisture vapor emission levels up to 6lbs/1,000sqft/24hrs, or 82% internal RH

### Uses

- Laboratories
- Hospitals
- Garages
- Pharmaceutical Plants
- Kennels
- Clean Rooms
- Schools
- Manufacturing
- Commercial/Retail

### Packaging

- Low Odor
- Built-In Adhesion Promoter
- Good Elastomeric Properties
- Waterproofing Membrane
- Universal Colorants

### Storage

Materials should be stored indoors between 60°F and 90°F.

### Shelf Life

One (1) year from date of manufacture.

### Technical Data

<b>Solids by Weight</b>	100%
<b>Mix Ratio (by volume)</b>	3 Parts Resin:1 Part Hardener
<b>Viscosity at 70°F</b>	500 cps
<b>Pot life at 70°F</b>	30 minutes
<b>Cure Time, Tack-Free at 70°F</b>	8 to 10 hours (foot traffic)
<b>Working Time at 70°F</b>	30 minutes
<b>Recoat Window</b>	72 Hours Maximum
<b>Coverage Rate</b>	10 mils, 160 sq ft/gallon
<b>Volatile Organic Compound</b>	0 VOC

### Testing Data

PHYSICAL PROPERTY	TEST METHOD	RESULT
Hardness (Shore D)	ASTM D-2240	70-80 D
Compressive Strength	ASTM D-695	13,100 psi
Tensile Strength	ASTM D-638	5,780 psi
Tensile Elongation	ASTM D-638	7.50%
Adhesion to Concrete	ASTM D-7234	>400 psi, substrate fails
Impact Resistance	ASTM D-2794	>160 in/lb

Water Absorption	ASTM D-570	<0.1%
Flame Spread/NFPA 101 (3mils over cement board)	ASTM E-684	Class 1
Abrasion Resistance CS17 Wheel 1000 GM Load 1000 Cycles	ASTM D-4060	30 mg loss
Coefficient of Friction (James Friction Tester) Wet Dry	ASTM D-2047	0.7 (smooth) 0.8 (smooth)
Heat Resistance Limitation Thermal Cycling (5 min. interval) (10 min. interval) Continuous Heat	Hot Oil (400°F) to Ice Water (25°F) Hot Oil (400°F) to Ice Water (25°F) 1 hour 300°F Hot Oil submersion	20 cycles – no effect 20 cycles – no effect No effects

## Surface Preparation

### INSPECT THE FLOOR PRIOR TO INSTALLATION.

**CHECK THE CONCRETE:** Concrete must be structurally sound and free of curing membrane, paint or other sealer.

**CHECK FOR MOISTURE:** Concrete must be dry before application of this floor coating material. Concrete moisture testing must occur. Calcium chloride testing or in-situ relative humidity testing is recommended. Test methods can be purchased at [www.astm.org](http://www.astm.org), see ASTM F1869-11 or F2170-11, respectively or follow manufacturer's instructions. Readings must be below 6lbs/1,000s.f./24hrs (ASTM F1869-11) or 82% internal relative humidity (F2170-11).

\*Note: Although testing is critical, it is not a guarantee against future problems. This is especially true if there is no vapor barrier or the vapor barrier is not functioning properly and/or you suspect you may have concrete contamination from oils, chemical spills or excessive salts.

### CHECK THE TEMPERATURE AND HUMIDITY:

Floor temperature and materials should be between 55°F and 85°F. Humidity must be less than 95%. DO NOT coat unless floor temperature is more than five degrees above the dew point.

### SURFACE PREPARATION

This product requires preparation in order to perform as expected. Substrate must be mechanically profiled (ASTM 4259-83), clean, sound, and dry.

## Application

A gallon of ECI Infinity Clear Epoxy will cover in the following manner, with a standard spread rate\*: 6-20 mils or 80-267 square feet per gallon. \*Application of primer, body, and topcoats are variable in thickness depending upon condition of substrate and type of system.

### MIXING INSTRUCTIONS

#### Application Equipment:

- Personal Protective Equipment (PPE) & clothing per SDS (Safety Data Sheet)
- Jiffy® Mixer Blade (ES Model)
- Clean Mixing Container
- Low Speed /High Torque Power Drill
- Application is typically applied with a notched trowel or squeegee at various spread rates
- Shed-Resistant Roller Cover- 3/8" Nap

Mix ratio for Infinity Clear Epoxy is 3 parts Resin to 1 part Hardener by volume. 8 oz. of ECI Universal Pigment is recommended per gallon of material. When field pigmentation, it should be added and mixed in homogenously to the resin prior to adding the hardener. When combining, be sure to add the hardener into the clean mixing container first. Then add the resin (clear or pigmented) scraping out the container. Always pour into the center of the mixing container. Mix the components thoroughly for 1-2 minutes with a Jiffler ES style mix blade. Mix only enough material

at one time that can be applied without exceeding the pot life.

#### JOINT GUIDELINES

Depending on preference, joints may or may not be filled. If the joints are filled, nonmoving joints, i.e. contraction or control joints can be treated by using special patching material. Contact ECI for patching material recommendations.

Note: Coating applied over filled joints may crack if there is significant concrete movement.

#### CLEANING GUIDELINES & MAINTENANCE

Allow floor coating to cure at least 3 days before cleaning by mechanical means (e.g., sweeper, scrubber, disc machine).