

Mega-Flex

Elastomeric Hybrid Epoxy Membrane

Description

The Mega-Flex system is a uniquely versatile elastomeric hybrid epoxy and waterproofing membrane. It is a clear, two component, low odor, 100% solids material specially engineered to stay flexible and soft, with good bridging capacity for horizontal movement of up to 1/8" without fracturing the Mega-Flex material.

Benefits

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

Uses

- Mechanical Rooms
- Slabs-On-Deck
- Parking Garages
- Pedestrian Decks
- Locker/Shower Rooms

Packaging

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

Storage

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

Shelf Life

One (1) year from date of manufacture.

Technical Data

Solids by Weight	100%
Mix Ratio (by volume)	2 Parts Resin:1 Part Hardener
Viscosity at 70°F	1200 cps
Pot life at 70°F	30 minutes
Cure Time, Tack-Free at 70°F	14 to 18 hours (foot traffic)
Working Time at 70°F	25 minutes
Recoat Window	72 Hours Maximum
Coverage Rate	20 mils, 80 sq ft/gallon
Volatile Organic Compound	0 VOC

Testing Data

PHYSICAL PROPERTY	TEST METHOD	RESULT
Hardness (Shore A)	ASTM D-2240	60
Tear Strength, PIT	ASTM D-1004	74
Tensile Strength	ASTM D-412	1,200 psi
Tensile Elongation	ASTM D-412	300%
Adhesion to Concrete	ASTM D-4541	>400 psi, substrate fails
Impact Resistance	ASTM D-2794	>160 in/lb
Water Absorption	ASTM D-570	<0.1%
Flame Test	ASTM D-648	Class 1

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, see ASTM F1869-11 or F2170-11, respectively or follow manufacturer's instructions. Readings must be below 3lbs/1,000s.f./24hrs (ASTM F1869-11) or 75% 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 60°F and 90°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 Mega-Flex will cover in the following manner, with a standard spread rate*: 20-30 mils or 53-80 square feet per gallon. *Application of body coat is 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 Mega-Flex is 2 parts Resin to 1 part Hardener by volume. 8 oz. of ECI Universal Pigment is recommended per gallon of material. When field pigmenting, 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).