



Iso-Flex® 200 Epoxy Resin

PRODUCT DESCRIPTION

Iso-Flex 200 Epoxy Resin is a relatively flexible two-component epoxy resin, containing no solvents, coal tar or plasticizer. Iso-Flex 200 Epoxy Resin is designed for use in both interior and exterior applications.

BASIC USES

Iso-Flex 200 Epoxy is recommended for several basic applications:

- As a binder in sand-filled **epoxy mortars** for use as a patching material or joint nosing. The binder is extended with silica sand 1:3 by volume.
- As a base resin in **membrane systems** used both to encapsulate wear resistant aggregates and as a lock coat.
- As an **overlay** with aggregate, to provide traction and wear resistance to concrete floors. Filled with silica sand, aluminum oxide or other suitable wear resistant filler.
- Meets ASTM C881 Type III, Grade I, Class B

LIMITATIONS

- Iso-Flex 200 Epoxy should be installed above 40°F.
- Keep from Freezing

PACKAGING

Available in 10 gallon units.

STANDARD COLORS

Concrete Gray, Mortar Gray and Dark Gray (Special colors available upon request at additional cost)

MIXING INSTRUCTIONS

Parts A and B should be mixed separately before combining. When combined mix thoroughly with A low speed motor and "Jiffy" paddle. Always scrape the container sides and paddle blades. Do not aerate the mix. Mix ratio is 1:1.

INSTALLATION

Shotblasting must be employed to provide a sound, clean substrate. In areas where shotblasting is not feasible, consult the manufacturer for other methods of surface preparation.

Apply Iso-Flex 200 Epoxy to a dry surface.

- **Epoxy Mortars:** A prime coat of Iso-flex 200 Epoxy should be applied. While still tacky place the aggregate filled Iso-Flex 200 Epoxy mortar and screed or trowel to the desired thickness. Do not over trowel and ensure proper termination and edge detail.

TECHNICAL DATA FROM LABORATORY TESTS

(Field Properties May Vary)

Property	Test Method	Test Results
Weight per gallon		8.8 lbs/gal.
Hardness (ShoreD)	ASTM D2240	65
Viscosity @ 77°F(24°C)	ASTM D2196 #4 RVT @ 20 rpm	1000-2500 cps
Cure Time @ 75°F(24°C)	ASTM C920	12 hours
Abrasion Resistance	ASTM D4060	60mg/1000 rev
Weathering Resistance	ASTM G53-83	Yellowing
Tensile Strength	ASTM D412	2800 psi
Ultimate Elongation	ASTM D412	40%
Tear Resistance	ASTM D1004	180 pli
% Yield	Wet-Dry	99%
Adhesion Strength	ASTM D4541	>350 psi
Pot Life @ 77°F(25°C)	ASTM C603	30 mins
VOC g/L		<5g/L
Flammability	ASTM D635	Pass
Shelf Life @ 77°F(25°C)		(2 years in sealed containers)
Chemical Resistance	Unaffected by gasoline, oils and coolants	

- **Membrane Systems:** The Iso-Flex 200 Epoxy Resin should be applied over the basecoat, aggregate is then broadcast into the resin and allowed to cure. The resin thickness, aggregate type/size and amount is specified elsewhere within a specific Iso-Flex system.
- **Concrete Overlay:** Apply the Iso-Flex 200 Epoxy over the prepared surface using roller, notched squeegee, or spray equipment. Apply at 40/50 ft² /gallon. Immediately broadcast 16/30 mesh clean, dry aggregate to full saturation, approximately 1 1/2 lbs./ ft². After the binder has cured broom or blow off excess aggregate and apply a lockcoat of Iso-Flex 200 Epoxy at 100 ft²/gallon. Multiple aggregate filled coats can be applied to increase thicknesses.

PRECAUTIONS

Epoxy systems are skin irritants. Please refer to the Material Safety Data Sheets that accompany each product shipment for proper handling instructions

MAINTENANCE

Iso-Flex 200 Epoxy Resin will provide a long, effective service life when properly used. Damaged areas may be repaired in the field using methods approved by the manufacturer.

WARRANTY

LymTal warrants that its products are manufactured free of defects and conform to the technical data listed.

Under this warranty we will replace, at no charge, any material proven defective when applied in accordance with our written instructions for applications recommended by us as suitable for subject product. LymTal shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of the product.

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LymTal International, Inc.

4150 South Lapeer Road • Lake Orion, MI 48359 • Tel (248) 373-8100 • Fax (248) 373-3480 • www.lymtal.com