

Iso-Flex® 608 Decorative Flooring

PRODUCT DESCRIPTION

Iso-Flex 608 is a high gloss, moisture insensitive, 100% solids, two component, epoxy binder. It has high adhesive, tensile and compressive strengths and excellent resistance to abrasion, impact and mild chemicals. Iso-Flex 608 has been formulated to be user friendly, with low odor, long working life and excellent application characteristics.

Iso-Flex 608 Decorative Flooring System consists of three materials: clear epoxy resin, colored acrylic, vinyl or quartz media and a clear lock coat of epoxy or polyurethane.

BASIC USES

Iso-Flex 608 is used where an attractive color matching floor system is required with abrasion resistant characteristics.

Typical applications include stair towers, vestibules, locker rooms, food manufacturing plants, animal rooms, institutional facilities and warehouses.

LIMITATIONS

- Apply only when material and surface temperatures are above 50°F and rising.
- Do not apply when temperatures are above 90°F
- Store Iso-Flex 608 at temperatures between 50°F and 90°F.

PACKAGING

Iso-Flex 608 is available in 3 gallon units.

COLORS

Iso-Flex 608 consists of a two component clear resin matrix. The fill media will provide the color and pattern.

INSTALLATION

Surface Preparation: Concrete must be structurally sound, dry, free of grease, oils, coatings, dust, curing compound and other contaminants. Surface laitance must be removed. The preferred method of surface preparation is abrasive blasting. For oil contaminated surfaces, using steam cleaning in conjunction with a strong emulsifying detergent is recommended. Rinse thoroughly with potable water.

TECHNICAL DATA FROM LABORATORY TESTS @ 75°F

Property	Test Method	Test Results
Mix Ratio	—	2 : 1 by volume
Gel Time	—	35-45 minutes
Tack Free	—	4-5 hours
Hardness (Shore D)	ASTM D2240	74-78
Tensile Strength	ASTM D638	5500-6500 psi
Tensile Elongation	ASTM D638	15-30%
Compressive Strength, neat resin	ASTM D695	
@ 24 hours		7500 psi
@ 7 days		9800 psi
Bond Strength	—	Greater than Concrete
Flammability	ASTM D635	Self-Extinguishing 0.75 max.
Water Absorption (24 hours)	ASTM D570	<0.5%
Shelf Life	—	2 years

After cleaning, remove defective concrete, honeycombs, cavities, joint crack voids and other defects by routing to sound material. Smooth precast and formed concrete surfaces must be cleaned, roughened and made absorptive by abrasive blasting or shot blasting. If it is not possible to abrade or shot blast, acid etch with a 15% hydrochloric acid solution. After etching, pressure wash or flush the surface with copious amounts of water to neutralize the surface. Care must be taken to ensure that all salts and residue from the reaction have been removed. The pH of the surface should be checked, as per ASTM D4262, following acid etching. New concrete should be allowed to cure for a minimum of 28 days prior to applying Iso-Flex 608. Remove any surface hardener, or curing compound by abrasive blasting.

Mixing Instructions: Using a low speed drill motor and a "Jiffy" type mixer, mix the A & B components separately for approximately 1 minute. Combine two parts by volume of "A" with one part by volume of "B" and mix thoroughly. Scrape the bottom and sides of the mixing container at least once. Mix just enough material that can be used within the working life. Do not aerate the mix.

Application: Apply Iso-Flex 608 to the clean substrate, using a brush, shortnap (1/8") roller or spray equipment. Apply at a rate of 80-100 ft²/gallon to give a wet film of 16-20 mils. Broadcast the flake or aggregate to refusal. The application rate for the acrylic or vinyl flake is approximately 0.15-0.25 lb./ft² and the quartz approximately 1.0-1.5 lb./ft². Allow the epoxy to cure for 16-24 hours.

Lock Coats

Iso-Flex 608 Epoxy can be applied as a lockcoat at 75-150 ft²/gallon.

Iso-Flex 614 Aliphatic Urethane can be applied as a lock coat in direct sun exposure applications. Apply at 80-100 ft²/gallon

Clean-Up Instructions: Clean tools and equipment immediately after use with methyl ethyl ketone or xylene. Clean spills or drips while still wet with same solvent. Cured Iso-Flex 608 will require mechanical abrasion for removal.

PRECAUTIONS

Do not thin or dilute Iso-Flex 608. Do not aerate during mixing. Do not apply if surface temperature is within 5°F of the dew point in the work area. Cure new concrete 28 days before applications. Refer to Material Safety Data Sheet for detailed health and safety information prior to use.

MAINTENANCE

Iso-Flex 608 Decorative Flooring System will provide a long, effective service life when properly used and maintained. 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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