



5.04 FAST HI-TECH EPOXY

Chemical Resistant Epoxy (Solvent Free Coatings)

PRODUCT DESCRIPTION

FAST HI-TECH EPOXY is a high build, 100% solids, solvent free, and polyamine epoxy system. This product is designed especially for concrete floor application where maximum durability and chemical resistance are factors. This high gloss product is available in clear and color formulations.

Uses: Existing concrete floors subjected to heavy traffic, the resin serves as an adhesive within the slab to further strengthen concrete floors, particularly around minor cracks, crevices and weak spots. Concrete floors requiring a smooth, nonporous surface. Work areas needing improved aesthetics. The high gloss finish is smooth, durable and easy to clean, aiding in reducing maintenance cost.

Recommended for: Industrial warehousing, paper mills, automotive garages, canneries, packing plants aircraft hangars, wastewater treatment plants, ice and roller skating rinks, prison floors, parking garages.

Benefits: Virtually odor free during installation and curing. Equipment can be cleaned with common solvents. The final appearance of the coated concrete is a smooth high gloss finish.

TECHNICAL DATA

FAST HI-TECH EPOXY is a 100% solids, solvent free and polyamine epoxy system.

PROPERTIES

• Viscosity	2400 cps
• Weight per Gallon	10.77 #
• Solids by Weight	100%
• Mixed	(base+hardner)
• SG. @20°C	1.3
• Solids by Volume	100%
• Crypto Meter Hide	N.A.
• Initial Gloss @ 60°	High
• Dry Film Thickness	as Desired

• Flash Point	None
• Flexibility	Pass
• Conical Mandrel	¼ inches
• Pencil Hardness	Min 3H-6H Cured fully
• Crosshatch Adhesion	%age/min 100%
• Lead	None
• Bleeding	None
• A.I.M. Category	Floor Coatings

A.I.M. Definition – An opaque coating with a high degree of abrasion resistance that is formulated and recommended for application to flooring including, but not limited to, decks, porches and steps in a residential setting.

- VOC Content Limit: 400 grams per liter Authorized for use by the USDA

Primer: Concrete surface should be primed with FastChem primer.

APPLICATION PROCEDURES AND INSTRUCTIONS

Before using this product, read the Material Safety Data Sheet for complete safety information. Material Safety Data Sheet is available from FastChem Distributors, the FastChem Office or the FastChem Website. FAST HI-TECH EPOXY Maximum solids Epoxy coating is designed for installation over clean, dry textured concrete.

New Concrete: The concrete should be cured with curing compound material or water cured for a minimum of 7 days. These systems will leave the floor open for acid etching and application later. The concrete should be 28 days old and have a chance to dry out. If the concrete is poured in a wet environment other mechanical means will be necessary to dry out the concrete.

Old Concrete: The concrete surface must be clean and dry. The preferred preparation method is by mechanical surface blasting; sandblasting or shot blasting.



Acid etching may be used, but it must be done properly and safely. Apply by airless or conventional spray, brush, high quality roller, lambs wool applicator or weight bar. Apply in a uniform manner and maintain a wet edge to prevent lap marks. To prevent out gassing assure that the concrete is completely dry and that the coating is being applied as the substrate is cooling. If a second coat is applied do so at a 90° angle from the first coat. Recent window is 24-48 hours.

COVERAGE

One coat will cover the concrete adequately. A second coat may be necessary to fill the pin holes left behind from the entrapped air bubbling through on the first coat. Coverage of 20-30 square feet per kg with two coats will leave a coating 150 micron thick. This will vary depending on surface porosity, smoothness and application. A test patch should be applied to determine proper results and coverage rates.

MIXING INSTRUCTIONS

Thoroughly mix equal parts of A and B in a clean container for 5 minutes. Longer mixing time will reduce working time, avoid whipping air into mixture. Mix only enough material that can be used according to the pot life schedule. No induction time is required. This product is ready to use immediately. Pot life of mixed material is approximately 30-45 minutes at 20C°.

DRYING TIME

At normal temperature (72°F) approximately 4 hours. Allow 24 hours for light foot traffic, 36 hours for normal foot traffic, 48 hours for wheeled traffic and 72 hours for exposure to chemicals.

LIMITATIONS

Concrete must be completely cured and dry before application.

- Do not apply over surfaces that are frozen, structurally unsound or where water or water vapor is being transmitted through the concrete.
- Do not use on asphalt.
- FAST HI-TECH EPOXY is designed for indoor use. It may yellow slightly and/or chalk when used outdoors.
- FAST HI-TECH EPOXY is not recommended for vertical surfaces.
- Do not use once pot life has expired.
- Do not mix freshly catalyzed material with previous catalyzed material.

• TECHNICAL DATA

- Chemical Resistance - FAST Epoxy Color Coating is resistant to: alkalis, solvents, acids, salt solutions, water, fats and oils, halogens (moist), oxidizing agents and fuels (see corrosion chart supplies).
- For more information on this or any other product, please contact FastChem customer service.

CLEAN UP

Clean all equipment and tools with FastChem 103 solvent.

PRECAUTIONS

Vapor harmful. May affect the brain or central nervous system causing dizziness, headache or nausea. Causes eye irritation. Causes skin irritation. Causes nose and throat irritation. May cause allergic skin reaction. Harmful if swallowed. Use only with adequate ventilation.



FastChem Technologies

The Fast Chemistry for Construction

To avoid breathing vapors or spray mist, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches or dizziness, increase fresh air or wear respiratory protection. Any person using a respirator must be properly trained in respirator use. Close container after each use. Avoid contact with eyes and skin. Dispose of empty containers in accordance to all applicable regulations.

AVAILABILITY

FAST HI-TECH EPOXY is available through FastChem distributors. Contact FastChem products for the nearest distributor. Packaged in 1.0, 2.5kgs & 5kgs packs.

WARRANTY

This product is warranted to be free of defects in material and workmanship, and conform to FastChem Construction Chemicals ("FastChem") quality control standards. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose. Satisfactory results depend upon many factors beyond FastChem's control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product. FastChem shall not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use or inability to use the product. FastChem's sole responsibility shall be to replace that portion of the product which proves to be defective. Any warranty claim must be made within six (6) months from the date of the claimed breach. This limited warranty applies only if the product was properly installed and used according to all instructions and was properly stored prior to use.

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