

CHEM-FLOOR EP

SOLVENT FREE HIGH-BUILD EPOXY

DESCRIPTION

CHEM-FLOOR EP is a two component epoxy polyamine coating which is a 100% solids system. **CHEM-FLOOR EP** is a high-build, wear resistant coating that provides protection against chemical attack. **CHEM-FLOOR EP** provides a semi gloss finish.

PRIMARY APPLICATION:

- Warehouse floors
- Parking Structures
- Chemical plants
- Terminals
- Fabrication facilities
- Manufacturing plants
- Showrooms

FEATURES / BENEFITS:

- Provides excellent wear under heavy traffic
- Excellent resistance to a variety of chemicals
- Hardens to semi-gloss finish
- Easy to apply with standard equipment
- Can be applied as a non-slip floor finish
- Available in a range of colors
- Free of solvent for low-odor and safe application.

COVERAGE:

Coverage rate is 2.5 - 3.1 m²/liter at 330 microns dry thickness. Thickness may be increased up to 500 microns, if desired. Greater thickness can be achieved by broadcasting silica sand as filler. The concrete surface texture greatly affects coverage rates and final appearance. Additionally, introduced silica sand for slip resistance will reduce coverage rates.

PRECAUTIONS / LIMITATIONS:

- Avoid application at air and floor temperatures below 10oC
- Bring materials as close to 21oC as possible.
- Store in room temperature environment 24 hours prior to use.
- Epoxy components may cause irritation.
- Avoid contact with eyes and skin.

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions by using part A & part B at 2:1.

Suitable for wheel traffic	: @48 hours
Dry to touch (at 21oC)	: 6 hours
Pot Life (at 21oC)	: 20 to 30 min.
Dry film thickness @ 3 m²/ltr	: 330 microns
Shelf life	: 1 year
Abrasion resistance	: excellent
Total solids content	: 100%

DIRECTION FOR USE:

Surface Preparation - New concrete must be a minimum of 28 days old and possess an open surface texture with all curing compounds and sealers removed. The moisture content shall be checked before application of the coating. The concrete must be clean and sound. All oil, debris, dirt, paints and unsound concrete be prepared mechanically using sandblast, shot blast or scarifier which will give an open surface profile with the cement past removed from the surface. The Above surface preparation is that recommended by CHEMfix. Acid etching is acceptable only when mechanical preparation is impractical. It is recommended that only contractors experienced in the acid etching process use this means of surface preparation The salt of the reaction must be thoroughly pressure washed away. Allow the concrete to completely dry.

Note: Even with proper procedures, an acid etched surface may not produce as strong a bond as produced by other preparation methods. Also acid etching will not remove oil, grease, sealers and other materials that will interfere with the bond on the surface of the concrete.

Priming - Concrete surface must be primed with CHEMfix 100 OR CHEMfix 50 and allowed to dry.

Joint and Edges - If the floor is subject to wheel traffic the edges of the floor area should be saw cut (6 mm) deep to provide a locked in edge. Moving joints as in the case of expansion joints should be brought up through the coating. All cracks over 0.3 mm wide should be filled. Use a 100% solids epoxy such as CHEMfix100 to fill wide cracks, joints and keyed edges.

Mixing - All materials should be kept within a temperature range of 16oC - 32oC. Mix parts A and B (resin & hardener) separately for one minute using a drill and mixing prop, for ease of mixing, add the part B to the part A (not reverse) and mix thoroughly for 2 -3 minutes. The epoxy must be well mixed to ensure proper chemical reaction. After mixing, place immediately.

Placement - This product may be applied by squeegee, roller or industrial sprayer. After application, it is suggested the coating be back rolled to reduce surface imperfections and improve bond.

CLEAN-UP:

Clean tools and equipment with solvent such as CHEM SOLVENT, xylene, xylol, toluene or MEK. Do not allow the epoxy to harden on equipment.

SHELF LIFE:

One year in unopened container.

PACKAGING:

CHEM-FLOOR EP is an epoxy system utilizes a 2:1ratio by volume 2 part of A that are mixed with 1part of B. The units are proportioned and packaged in 10 liter kits.

CHEMICAL RESISTANCE

Acetic Acid, 5% ..	.....good
Alkalis ..	.....excellent
Ammonia ..	.....excellent
Battery Acid ..	.....excellent
Bleach ..	.....excellent
Brake fluid ..	.....good
Ethanol ..	.....good
Ethylene Glycol ..	.....excellent
Gasoline ..	.....excellent
Hydrochloride Acid, 10% ..	.....good
MEK ..	.....poor
Methylene Chloride ..	.....poor
MIBK ..	.....poor
Nitric Acid, 5% ..	.....poor
Oil ..	.....excellent
Salt water ..	.....excellent
Skydrol ..	.....good
Toluene ..	.....good
Urine.....	.....excellent
Xylene ..	.....excellent

NOTE: Where chemical resistance is rated as poor, check with CHEMfix Technical Department do Possible Top Coats or alternatives with better chemical resistance.

RATINGS - Poor - affected within 24 hours; Good - no effect for 24 hours; Excellent - no effect after 2 weeks.