



DESCRIPTION: Fluid Floors LF Coating is a high performance cycloaliphatic amine cured ceramic epoxy floor coating system. It provides a high build and extremely high wear resistant top coat. 100% solid product boosts self leveling properties and blush resistance. This ceramic epoxy coating cures under cool damp conditions with a recommended mil thickness of 10-50 mil.

RECOMMENDED USES:

Fluid Floors LF Coating is ideally suited for coating floor areas such as:

- Chemical process areas
- Warehouse traffic areas
- Food and beverage processing plants
- Aircraft hangers
- Sewage treatment facilities

FEATURES:

- 100% Solids
- USDA Approved
- Excellent all-around resistance to chemicals (acids, alkalis, and solvents)
- Low viscosity
- Self leveling properties
- Readily cures with short dust-dry time even at low temperatures
- Excellent surface appearance
- Good flexibility with high friction properties
- Easily squeegeed or roller applied

PRODUCT CHARACTERISTICS:

- Color (mixed) *Pebble, Concrete, Silver, Blue Grays, Tile Red*
- Viscosity (mixed) *2500 cps*
- Pot life (77°F) *30 min.*
- Shelf Life *Minimum one year if kept tightly sealed.*
- Packaging *5 gallon units*
- Yield *163 - 108 sq. ft. gallon at 10 - 15 mils (recommended minimum)
Estimates may vary according to conditions of surface.*
- Drying time: *24 hrs. 75°F (light traffic)
120 hrs. 75°F (heavy traffic)*

TYPICAL PROPERTIES

- Flexural Strength *14,900 psi*
- Tensile Strength *9,900 psi*
- Elongation *18%*
- Compressive Strength *12,200 psi*
- Heat Distortion *147°F*
- Temperature Limit *180°F*
- Chemical Resistance *Refer to chart*

SURFACE PREPARATION:

Steel Surface - Remove oil with degreaser solvents or detergent prior to surface preparation. For best results, sandblast all metal surfaces. Remove all sand and dust from surface. Surface should be dry.

For Concrete Surface - Remove all oil, dirt, and contaminates. Sandblast, acid etch, or mechanically remove laitance from surface. Acid washes should be thoroughly rinsed and neutralized. Surface should be dry and free of dust. Fluid Floors LF 1000 or B1 Primer is recommended as a primer. Note: Under certain conditions, hydrostatic pressure may exist in concrete flooring. This phenomena is usually related to sudden rises in water tables (heavy rains), which can cause severe bubbling and poor adhesion of applied coatings. This situation is best approached by scheduling coating applications during extended periods of dry weather.

APPLICATION

1. Add component B to component A; mix thoroughly for at least 3 minutes. For best results, use a drill motor I mechanical mixing paddle operated at low speed.
2. Using a squeegee or roller, spread a full even coat of Fluid Floors LF Coating onto surface.
3. When used as a non-skid coating, broadcast non-skid material onto coating while still tacky. Consult Fluid Floors technical representative for material recommendations. Because of the self-leveling and rheological characteristics of LF, it is not recommended to use sand aggregates as a non-skid broadcast. These materials will not float on the surface, which will affect product performance and also produce inconsistent shadowing.
4. Use Fluid Floors NO.5 Cleaner for cleaning tools and equipment soon after use. Do not use solvents on hands or other parts of body. Clean hands and other exposed areas with soap and water.

PRECAUTIONS

FOR INDUSTRIAL USE ONLY READ MSDS BEFORE USE

1. Do not thin with solvents.
2. Do not apply in temperatures below 50°F.
3. Cracks and damaged concrete should be repaired prior to application.
4. Floor surface must be structurally sound, free from hydrostatic pressure, contaminants, curing compounds, or other materials which may prevent proper adhesion.

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Chemical Resistance*

Cure Schedule: 7 days @ 78°F
Immersion Time: 3 weeks

SOLVENTS	% WEIGHT GAIN OR LOSS
Xylene	D
1,1,1-trichloroethane	13.8
Gasohol	—
MEK	D
Ethyl Alcohol	3.2
Methyl Alcohol	11.4
Skydrol	—
Water	0.7
5% Detergent Solution	0.7

ACIDS	
10% Sodium Hydroxide	0.6
50% Sodium Hydroxide	0
10% Sulfuric Acid	1.5
50% Sulfuric Acid	0.1
10% Hydrochloric Acid	0.9
20% Nitric Acid	1.5
10% Acetic Acid	4.8

Heat Resistance*

HDT - 61°C (unfilled) **82°C** (4:1 filler:binder ratio)

Figures reflect prolonged exposure. These materials can be used in higher heat applications where only incidental exposure occurs. The heat resistance of LF Coating is dependent upon its cure cycle. The higher the cure temperature, the better its resistance. This is due to the post cure characteristics of the system.

*Tests were carried out on discs 1.75" in diameter and approximately 0.2" thick. '0' indicates that the specimen partially disintegrated. Values are rounded to the nearest decimal.

The Stoichiometric ratios of this resin & hardener system are critical to achieving optimum mechanical properties. Any variance in these ratios will compromise performance.

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