PILGRIM

COATINGS

L F 4100 LV Coating

SELF LEVELING CERAMIC EPOXY COATING

DESCRIPTION:

Pilgrim L F 4100 LV Coating is a high performance cycloaliphatic amine cured ceramic epoxy floor coating system. Provides a high build, extremely high wear resistant top coat. 100% solid with self leveling properties and blush resistance. Cures under cool damp conditions. 10 - 50 mil recommended mil thickness.

RECOMMENDED USES:

Pilgrim L F 4100 LV 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)

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Distribution : USA, Canada, Caribbean

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

For 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. Pilgrim 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 / mechanical mixing paddle operated at low speed.
2. Using a squeegee or roller, spread a full even coat of Pilgrim LF 4100 LV Coating onto surface.
3. When used as a non-skid coating, broadcast non-skid material onto coating while still tacky. Consult Pilgrim 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 Pilgrim 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, contaminant's, curing compounds or other materials which may prevent proper adhesion.

Important ! PILGRIM makes no warranty whether expressed or implied, including warranties of fitness for a particular purpose of these products. Under no circumstances shall PILGRIM be liable for incidental, consequential or other damages from alleged negligence, breach of warranty, strict liability or any other theory, arising out of the use or handling of these materials.The sole liability of PILGRIM for any claims arising out of the manufacture,use or sale of its products shall be for the buyers purchase price.

LF COATING

Chemical Resistance

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

	% weight gain or loss
Solvents	
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.
'D' indicates that the specimen partially disintegrated. Values are rounded to the nearest decimal.

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