



LAVA-LINER

ULTRA FLEX EP-990C CONCRETE PENETRATING EPOXY

DESCRIPTION

ULTRA-FLEX EP-990C is a slow setting medium solids epoxy developed especially for applications where the potential for cold wall blistering and moisture migration exists in concrete substrates.

ULTRA-FLEX EP-990C is highly effective against fuel oil, high end solvents, oxidizing chemical combinations and severe caustic and acidic environments.

ULTRA-FLEX EP-990C adds integrity to old concrete surfaces and adds resistance to cracking from substrate movement.

Durable and highly abrasion resistant, ULTRA-FLEX EP-990C will withstand some of the harshest industrial environments when used as a curing agent for concrete and in conjunction with ULTRA-FLEX Polyurethane Waterproofing Membranes.

ULTRA-FLEX EP-990C has excellent penetrating adhesion to concrete and other types of masonry. ULTRA-FLEX EP-990C was developed to provide a barrier to moisture when over coating with Lava-Liner's highly flexible polyurethane and polyurea coating products to form flexible and impermeable barriers to caustic and acidic solutions.

Application Properties	
Cure Time	4-6 hours
Pot Life	2 hours
Mix Ratio (A to B)	2:1
Weight Per Gallon	8.4 (blended)
Percent Solids	63.5
Shore D Hardness	>45
VOC Content	<340 g/l

Physical Properties	
ASTM	Results
G-8(Modified) Cathodic Disbond 92 days	Under 1mm (Pass)
D4541 Pull Force Adhesion	1487 psi
4060 C8 Taber Abrasion	Wt. Loss <1/1 mg
D986 Falling Abrasive	Wt. Loss - Nil

MATERIALS

Empty 5 gal Pail or 20 gal drum for blending
½ inch drill
Mortar mixing paddle for drill
Hudson or garden sprayer

MIXING

Pour the pre mixed contents of Part A containers into a clean and empty container. (2 one gallon cans)

Add the contents of the Part B (one gallon) to the container with the Part A.

Mix at approximately 500 RPM with the mortar mixer until well blended (approximately 3-4 minutes)

APPLICATION:

Manual application by brush or roller can be accomplished by dipping the brush or roller into the mixed EP-990 C and applying to the porous concrete surface at approximately 15 mils per square feet.

The use of a mechanical hand pressurized garden pump (Hudson is a common name) with the nozzle set to a heavy spray fan. Insure the pump will handle solvents or harsh chemicals. A typical pump for spraying diesel can

be found at most hardware stores. Pour the blended EP-990C into the garden sprayer and pressurize.

Begin spraying at the top of any horizontal surface to be coated with an amount that will be immediately absorbed and a small residual will begin to run down the wall. Work your way down to the surface taking care not to apply too much so that the material will puddle at the bottom of the wall. For horizontal surfaces, apply at a rate of approximately 10 mils per square foot. Any puddles may be spread with a roller, brush or evened out with a squeegee.

Typical Spray Equipment



Back Pack Type



Typical Garden Sprayer