PRIME-FLEX 985

LX10, LX20

DESCRIPTION AND USES:

Prime-Flex 985 is a two-component polyurethane grout system that produces a strong, lightweight, rigid structural foam. Prime-Flex 985 can provide significant slab or structural support without the added weight loading of traditional cement grout. Prime-Flex 985 has excellent flow characteristics and is less moisture sensitive than many polyurethane resins. Common uses include:

- Filling Wet Voids
- Under Slab Stabilization
- Filling Abandoned Pipelines
- Filling Abandoned Storage Tanks
- Sealing Conduits and Raceways

ADVANTAGES:

- Quick Set Time
- Low Viscosity
- Ideal for Wet Condition Applications
- Bonds with Sub Soils

PACKAGING:

- 1 Gallon Unit
- 2 Gallon Units
- 10 Gallon Units
- 100 Gallon Units
- 550 Gallon Bulk Units

TYPICAL PHYSICAL PROPERTIES AT 74°F (23°C)

Viscosity	(Part A) (Part B)	270 cps 280 cps	
Weight per Gallon	(Part A) (Part B)	10.2 lbs. per gallon 8.6 lbs. per gallon	
Mixing Ratio		(1:1) By volume	
Initial Reaction Time		70 seconds	
Set Time		8 Minutes	
Expansion*	**LX10** **LX20**	10:1 20:1	
Compressive Strength	ASTM D-1621	10:1 Expansion 20:1 Expansion	60 psi 40 psi
Density	**LX10** at 4.5 lb density **LX 20** at 2.5 lb density	9216 psf† (64 psi) 4900 psf† (34 psi)	

* Expansion is affected by field conditions. Actual results may vary depending on temperature, mixing equipment and degree of constraint (i.e. pumping into a void caused by slab curling will result in a more dense material).

† Estimates of Allowable Bearing Pressure for Standard Soils:
Cohesive soils - stiff clay = 3,000 - 6,000 psf
Non-cohesive soils - compact sand = 2,000 - 6,000 psf

INSTALLATION METHOD

WARNING:

Prime-Flex 985 expands during its curing process. If the material is injected into totally confined areas, it can generate expansive forces that may damage the structure and could cause personal injury.

Before injecting Prime-Flex 985 into any confined area, insure that open paths exist from the area being injected to the surface of the structure so displaced water, air and excess expanding material can escape.

To provide a pressure-relief path for the expanding material, one or more open holes should be drilled completely from the surface into the void area being injected.

INSTALLATION METHOD:

Prime Resins Prime-Flex 985 is designed to be mixed using a two component pumping system set at a 1:1 mix ratio. The material should be pumped through a static mixer to insure complete blending. Recommended application temperature is between 40^{o} F and 100^{o} F (-18^{o} to 38^{o} C).

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INSTALLATION METHOD (continued)

Material should be preconditioned to 65^{o}-85^{o} F (18^{o} to 29^{o} C) before use.
Read and follow all label and safety directions.

Prime Resins recommends that any new concrete being repaired be at least 30 days old.

After mixing, the resin will foam in approximately 70 seconds with an expansion rate of up to 20:1 in volume. The cured resin creates a rigid, closed cell structure which is highly resistant to water and vapor transmission.

When void filling, short bursts of material are recommended to allow for the resin to react, maximize flow, reduce potentially high expansive forces, and reduce the peak exotherm temperature.

SLAB STABILIZATION / SLAB UNDERSEALING

Prime-Flex 985 is ideal for repairing "curled" or "rocking" slabs common in warehouse floors. ***Important***: *It is possible to raise the slab due to the expansive force of the material if relief ports are not drilled. Insure that the resin is delivered in small bursts to minimize this possibility. Do not rush by injecting large amounts of material into the void all in one shot.* Drill 3/8" holes through the slab on both sides of the joint to be repaired or in a grid pattern if excessive voids are identified more than 18" from the joint. Spacing of holes will be dependent on slab thickness and size of void. When finished, the drilled holes should form a "zig-zag" pattern along the joint. If a very small repair is to be made, a minimum of two holes should be drilled. This allows one hole for pumping, and one hole for venting to allow displaced air and excess material to escape. Dispense the Prime-Flex 985 into the first hole and wait a few minutes to allow the resin to migrate under the slab and cure. By observing the material rising out of the drilled holes and joint, you can visualize how far the Prime-Flex 985 has traveled. Next, move to the next open hole and repeat the injection process. Work down the joint and/or grid until complete undersealing of the slab is accomplished. Excess material that cures outside of the joint and holes can be removed by scraping or sanding. Holes can be patched with Prime Gel 2500 Quick Bond if a finished look is desired.

VOID FILLING

Prime-Flex 985 is commonly used to fill voids. To fill a void, pump Prime-Flex 985 into area to be filled. *Caution:* The mixed resin will begin to expand in approximately one minute. A release hole should be drilled into enclosed structures to allow the expanding excess resin to escape. Injecting into a closed structure without allowing for pressure release can cause a violent release of pressure and damage to the structure or personal injury.

WARNING: Both "A" and "B" Components can cause irritation to eyes, skin, and respiratory system. Provide ventilation sufficient to maintain vapor concentrations below recommended exposure limits. Vapor overexposure may cause respiratory irritation and allergic reaction. Avoid contact with skin, eyes, and clothing.

Wear protective rubber gloves and safety glasses or chemical goggles when handling or dispensing materials. Wash contaminated clothing before reuse. Consult MSDS for further information.

FIRST AID:

SKIN CONTACT - Remove contaminated clothing. Wash affected areas thoroughly with soap and running water. Consult MSDS for further information.

EYE CONTACT - Immediately flush eyes with running water for a minimum of 15 minutes. Seek Medical Attention. Consult MSDS for further information.

INHALATION - Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention. Consult MSDS for further information.

INGESTION - Do not induce vomiting. If conscious, wash out mouth with water and give 1 or 2 glasses of water to drink. Seek Medical Attention. Consult MSDS for further information.

CLEAN UP: Use Prime Flush cleaner, M.E.K. or Acetone to clean equipment. Use soap and water to clean skin.

STORAGE: Store in dry conditions below 80°F (26°C). Ideal storage conditions are between 40° and 80°F (4° and 15°C). Under proper conditions, the shelf life is twelve months in unopened, damage-free containers.

FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN

PROTECT FROM MOISTURE
OBSERVE PRODUCT CAUTIONS

WARRANTY: Prime Resins warrants its products to be free from manufacturing defects and that products meet the published characteristics when tested in accordance with ASTM and Prime Resins standards. No other warranties by Prime Resins are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. Prime Resins will not be liable for damages of any sort resulting from any claimed breach of warranty. Prime Resins' liability under this warranty is limited to replacement of material or refund of sales price of the material. There are no warranties on any product that has exceeded the "shelf life" or "expiration date" printed on the package label.

THP TDS-985-03/07 2M
Prime-Flex 985

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