

**FLOW-LINER SYSTEMS, LTD.**  
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## **FLOW-LINER™ RAPID CURE VERTICAL MORTAR**

### **DESCRIPTION**

FLOW-LINER RAPID CURE VERTICAL MORTAR is a one part, polymer modified, fast setting, silica fume, fiber reinforced mortar designed for vertical and overhead repairs from ¼” to 2” in one application. The product may be applied by hand or sprayed with a low-pressure pump.

### **USES**

Overhead and vertical repairs to spalled areas or broken concrete walls, columns, beams, concrete pipe, piers, and other masonry surfaces where forming is impractical. Before each patch, a slurry bond coat should be applied to areas patch is to bond to. The slurry consists of water and powder mixed to a soupy consistency. Dampen area to be patched with water (DO NOT LEAVE PUDDLES). Apply slurry bond coat to patch area with paint brush or masonry brush and scrub into all crevices. (NOTE: apply patch while slurry is still damp).

### **APPLICATION**

Place clean cool water in mixing pail then add powder and mix with trowel to reach desired consistency. Place material on patch area and smooth with flat trowel or wood float. Let material set a few minutes, then finish with float trowel or brush for desired texture. Water demand is approx. 1 gallon to 50 lb. material. Use a curing compound or damp cure area after finishing.

### **LIMITATIONS**

Place material in temperatures between 40° F and 100° F.

**COLD PLACEMENT:** warm material, water and patch area and keep above 40° F for 24 hours after placement. Do not allow patch to freeze for 48 hours after placement.

**HOT PLACEMENT:** mix patch with cold water or ice water. Store patch in cool or shaded area before mixing.

### **CLEAN UP**

Clean up is simple and easy with soap and water. Rinse tools before material hardens.

### **PRECAUTIONS**

Contains Portland cement: avoid eye contact and prolonged contact with skin. Wash thoroughly after handling. In case of eye contact, flush with water for at least 15 minutes. Consult a physician immediately. Keep out of reach of children. Contains free silica – DO NOT breathe dust. May cause delayed lung injury. Follow OSHA safety and health standards for crystalline silica (quartz). See material safety data sheet for detailed information.

### **COVERAGE**

Volume yields .45 cubic feet per 50 lb. bag.

### **PACKAGING**

Packaged in a 50 lb. polylined bag or 50 lb. plastic pail.

### **TECHNICAL DATA**

#### **COMPRESSIVE STRENGTH**

	Air Cure
6 Hours	2400 PSI
1 Day	3250 PSI
28 Day	6800 PSI

#### **FLEXURAL STRENGTH ASTMC-293**

7 Day	600 PSI
28 Day	990 PSI

#### **BOND STRENGTH**

ASTM C-882 Modified	
1 Day	350 PSI
7 Day	1000 PSI
28 Day	1600 PSI

#### **SHRINKAGE (inch/inch) ASTM C-596**

1 Day	0.048
7 Day	0.061
28 Day	0.076

#### **Abrasion Resistance Grams lost**

¼” APCI	
28 Day	1

#### **Setting Times 77° F**

Initial Set	35 min.
Final Set	50 min.

Cold Temperatures – Set slower.

Hot Temperatures – Set faster.