



Surrounding You with Exceptional Protection

## OmniCrete FP Horizontal Form and Pour Repair Mortar

### PRODUCT DESCRIPTION

OmniCrete FP is a versatile, single component, rapid strength gaining repair mortar for horizontal, and form and pour repair projects. Requiring only the addition of water, OmniCrete FP is a low shrinkage, high early strength material that is easy to use for fast turnaround projects. Repaired areas may be open to standard tire traffic just 2 hours following the final set, and non-breathable coatings can be applied after 4 hours. OmniCrete FP is similar in appearance to concrete and is suitable for use in repairing concrete surfaces from approximately 1/4" to 6" (6 mm to 15 cm) in thickness. A slower setting version of OmniCrete FP is also available (OmniCrete FP LS).

### TYPICAL USES

OmniCrete FP is suitable for use in a variety of applications including:

- Vertical and overhead form and pour operations
- Warehouses
- Loading docks
- Industrial, commercial, and institutional floors
- Above and below grade applications

### HANDLING CHARACTERISTICS/FEATURES

- Single-component for easy mixing and handling.
- Excellent freeze-thaw resistance for difficult climates.
- Contains an integral corrosion inhibitor.
- Low permeability helps protect rebar from corrosion.
- High bond strength provides excellent adhesion.
- Can be coated with epoxy after 5 hours at 70 °F (21 °C).

### TYPICAL PROPERTIES

Test Method	Test Property	Values – OmniCrete FP (OmniCrete FP LS)
ASTM C109M 2" (50 mm) cubes	Compressive Strength	1 hour.. . . . 2,600 psi (NA) 3 hours. . . . . 5,000 psi (1,200 psi) 1 day. . . . . 6,000 psi (4,000 psi) 7 days . . . . . 7,500 psi (5,000 psi) 28 days . . . . . 10,500 psi (8,000 psi)
ASTM C496	Split Tensile Strength	28 days . . . . . 780 psi (480 psi)
ASTM C348	Flexural Strength	7 days . . . . . 1,000 psi (730 psi) 28 days . . . . . 1,500 psi (820 psi)
ASTM C882	Bond Strength	7 days . . . . . 2,300 psi (2,100 psi) 28 days . . . . . 2,700 psi (2,800 psi)
ASTM C157M*	Length Change	28 days . . . . . 0.007% (0.022%) (wet cure)
	Mixed Density	~143 - 149 lb/ft <sup>3</sup> (Both grades)
	Approximate Set Times	Initial Set . . . . . 20 (30-60) minutes Final Set . . . . . 35 (60-100) minutes

## **PACKAGING & STORAGE**

OmniCrete FP is packaged in unit sizes as follows:

50 lb (22.7 kg) bag

Yield – 50 lb (22.7 kg) unit: 0.37 ft<sup>3</sup> per unit when mixed with 5-5.25 pints (2.37-2.48 L) of potable water.

Properly stored, OmniCrete FP has a shelf life of 12 months in the original unopened package. Refer to the date of manufacture printed on the label.

## **SPECIFICATION GUIDE**

Use OmniCrete FP Mortar as manufactured by Blome International, O'Fallon, MO (800) 886-3455. Install in accordance with the latest data sheet for OmniCrete FP and the corresponding Blome overcoat material as well as good industry practice.

## **APPLICATION GUIDELINES ENVIRONMENTAL CONDITIONS**

For optimum results, condition material to 65 to 85 °F (18 to 29 °C) at least 24 hours prior to use. The minimum application temperature is 45 °F (7 °C) and rising at time of application.

## **JOBSITE STORAGE OF MATERIALS**

Proper storage of Blome International products is important to a successful application. Follow these general storage procedures:

1. Store components, unopened, at 50-85°F, out of direct sunlight and protected from the elements.
2. Keep away from heat and flame. For the 24 to 48 hours just prior to use, adjust the storage temperature to 65-85°F to facilitate handling.
3. Powder must be kept dry prior to use.

## **SURFACE PREPARATION**

The following recommendations generally apply to the proper surface preparation of concrete for OmniCrete FP but consult the data sheet of the Blome overcoat material for any additional or superseding requirements for surface preparation.

1. Concrete must be structurally sound and must not contain any accelerators or curing compounds.
2. Remove all oil, grease, chemicals or other contaminants.
3. Mechanically abrade the surface to achieve a surface profile equal to CSP 5 - 7 in accordance with ICRI Guideline 310.2. Properly clean profiled area.
4. Consult Blome International for priming recommendations.

## **APPLICATION EQUIPMENT**

Single 50 lb. (22.7 kg) units may be mixed with a drill and “jiffy” mixer. A paddle type mortar mixer may be used for large jobs.

## **MIXING AND APPLICATION**

1. One 50 lb. (22.7 kg) unit requires 5-5.25 pints (2.37-2.48 L) of potable water.. All materials should be in the proper temperature range of 65 to 85 °F (18 to 29 °C). Mix for two minutes. Add up to 0.25 pints of water if more flow is required. Do NOT add more water than this.
2. Add the appropriate amount of potable water to a clean mixing vessel, then gradually add the dry product. Do not exceed maximum water or add any additional additives. Mix for 3 to 5 minutes. Do not retemper. Do not mix more material than can be placed within 20 minutes (30 min for LS).

### **PLACING MIXED MATERIAL**

1. Ambient and surface temperatures should be at least 45 °F (7 °C). Working time at 72 °F (22 °C) is approximately 20 minutes (30 minutes for LS). After mixing, place the mortar into the prepared area to be repaired.
2. Work the material firmly into the bottom and sides of the repair area to ensure good adhesion.
3. OmniCrete FP should be placed at a minimum of ¼" up to 4". 25 LB of pea gravel (3/8" average size) can be added for pours over 4" (up to 6").
4. Finish the repair material to the desired texture. Do not add water to the surface during the finishing operation.

### **CURING/SEALING**

If an epoxy coating will not be applied, wet cure the surface with water and polyethylene sheets at least one day or use a curing compound. If applying an epoxy coating, it is important to wet cure with polyethylene sheets for at least 3 hours and then allow to air dry for 2 hours before coating. OmniCrete FP can be coated with epoxy systems after 5 hours at 70 °F (21 °C)..

### **CLEAN-UP**

Clean tools and equipment with water before the material hardens..

### **CAUTION**

OmniCrete FP causes eye and skin irritation. Wear safety glasses, gloves and avoid contact with skin and eyes, and refer to the safety data sheet, which is available for each product.

### **WARRANTY**

We warrant that our goods will conform to the description contained in the order and that we have good title to all goods sold. Our material data sheets and other literature are to be considered accurate and reliable, but are used as guides only. WE GIVE NO WARRANTY OR GUARANTEE, WHETHER OF MERCHANT ABILITY OR FITNESS OF PURPOSE OR OTHERWISE, AND WE ASSUME NO LIABILITY IN CONNECTION THEREWITH. We are happy to give suggestions for applications; however, the user assumes all risks and liabilities in connection therewith regardless of any suggestion, we may give. We assume no liability for consequential or incidental damages. Our liability, in law and equity, shall be expressly limited to the replacement of non-conforming goods at our factory, or at our sole option, to repayment of the purchase price of the non-conforming goods.

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