



# MASONS SUPPLY COMPANY

OREGON

WASHINGTON

## MASCO FLASH | Cement Based Patching Mortar

### DESCRIPTION

MASCO FLASH is a ready-to-use, cement based concrete and masonry patching compound formulated specifically for use around water. It requires only potable water for mixing. MASCO FLASH achieves initial set in approximately 20 minutes, and final set in 35-40 minutes. After initial set, MASCO FLASH may be shaved to conform to the contours of the surrounding surface. MASCO FLASH undergoes a chemical "hyper hydration" and produces a very stable, low permeable, cementitious matrix, when combined with the correct amount of water. When properly mixed and applied, MASCO FLASH develops a very high strength and a tenacious bond.

### USES

- Interior or exterior above or below grade
- Vertical, overhead and horizontal repairs
- Outstanding repair material for tunnels, basements, concrete pipe, curbs, catch basins, vaults, formed and precast concrete
- Freeze thaw durable
- Trowelable repair mortar

### FEATURES AND BENEFITS

- Initial set in 20 minutes
- Final set within 35-40 minutes
- May be "shaved" to desired shape
- High strength
- Excellent durability

curing compounds, coatings and other bond inhibiting materials from surface. Be sure repair area is not less than 1/4 inch in depth. Preparation work should be done by high pressure water blast, scabber, or other appropriate mechanical means to obtain an exposed aggregate surface with a minimum surface profile of  $\pm 1/16$  inch. Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standing water during application.

### MIXING INSTRUCTIONS

Mix only enough material that can be applied within 10 – 15 minutes. MASCO FLASH will require approximately 5 to 5-1/2 quarts of potable water per 50 lb bag to achieve the proper mix consistency. In a clean container, add 3/4 of mixing water. Using a 1/2" slow speed (400-600 rpm) drill and a Jiffy mixer, gradually add the MASCO FLASH powder to produce a mortar with a smooth consistency and without lumps. Add remaining liquid to obtain desired consistency. Do not mix longer than 60 seconds. Mix small quantities of MASCO FLASH in a clean pail with a margin trowel at ratio of approximately 3 parts powder with 1 part mixing water.

To fill horizontal patches or formed repair areas deeper than 1.0 inch depth, MASCO FLASH should be extended with 20 pounds of clean 3/8 inch pea gravel. The pea gravel aggregate should be added after the powder is added to the mixing water.

### APPLICATION TECHNIQUES

Minimum ambient and surface temperatures 40°F and rising at time of application. Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standing water during application. Apply a scrub coat of the mixed MASCO FLASH by hand or stiff brush working mixture thoroughly into voids and pores of surface to eliminate air pockets. Before scrub coat dries, follow immediately with a layer of MASCO FLASH. If scrub coat dries before mortar is applied, scrub coat must be mechanically removed back to a clean surface.

Alternatively a brush coat of MASCOBOND EVA can be used as a bonding agent for areas not subject to water immersion or applications below 50°F. Consult MASCOBOND EVA data sheet for details. Expansion joints and control joints must be extended through MASCO FLASH. Moving cracks will "telegraph" through MASCO FLASH.

**HAND APPLIED VERTICAL SURFACES:** Follow application techniques above, then apply MASCO FLASH from a minimum 1/4" to 1" depth by rubber gloves or trowel using sufficient pressure to fill surface holes and voids and to ensure maximum bond to the substrate. Completely fill all voids around steel reinforcement. For repair depths greater than 1.0 inch, apply MASCO FLASH in lifts. Rake or score the fresh MASCO FLASH with edge of trowel to create a keyed surface area for improved adhesion. After Initial set, (SSD) dampen surface and apply another layer of MASCO FLASH. Slightly overfill the final layer

#### MATERIAL PROPERTIES AT 75° F.

<b>ASTM C109</b> Compressive Strength, PSI	24 Hour 7 day 28 Day	3,000 5,000 6,000
<b>ASTM C266</b> Set Time, Gilmore, Min	Initial Final	20 35-40
<b>ASTM C190</b> Tensile Strength, PSI	7 Day Avg. 28 Day Avg.	325 450
<b>ASTM C78</b> Flexural Strength, PSI	28 Day Avg.	990
<b>OH DOT 1042</b> Shear Bond Strength, PSI	24 Hour Avg. 7 Day Avg.	900 1,250
<b>ASTM C666</b> Freeze Thaw Durability Factor	300 Cycles	98.25%
<b>ASTM C157</b> Shrinkage Initial Final Expansion Initial Final	7 Day 28 Day 7 Day 28 Day	-0.053% -0.160% 0.049% 0.102%
<b>ASTM C672</b> Scaling Resistance	25 Cycles	0% loss
<b>ASTM D1411</b> Chloride		<0.01%

### SURFACE PREPARATION

Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, laitance, oil, grease,

and immediately following initial set, shave the material with edge of margin trowel following the finished surface. Shave MASCO FLASH toward the common bonding edge between repair material and existing surface. Use a wet sponge float for final finishing.

**FOR HORIZONTAL OR FORMED REPAIRS: Follow application techniques above,** then apply MASCO FLASH from a minimum 1/4" to 1" depth with trowel or float using sufficient pressure to fill surface holes and voids and to ensure maximum bond to the substrate. A broom, wood or steel trowel finish may be applied to the surface. To fill areas deeper than 1.0 inch, MASCO FLASH should be extended with up to 20 pounds of clean 3/8 inch pea gravel. When extended, MASCO FLASH can be applied in lifts of up to 3 inches. Do not featheredge MASCO FLASH.

#### **CURING**

As per ACI 308 Standard Practice for Curing Concrete, curing of MASCO FLASH is required. Moist cure with wet burlap or polyethylene or a water based compatible curing compound such as MASCO CURE & SEAL WB. Moist cure should begin immediately after finishing. Protect newly applied material from direct sunlight, wind, rain, frost and freezing. Pretesting of curing compound other than MASCO CURE & SEAL WB is recommended. Curing compounds adversely affect the adhesion of following layers of mortars, toppings or protective coatings. If repairs will receive a subsequent coating or topping complete removal of curing compound will be necessary. Consult subsequent coating manufacturers' guidelines. In hot weather conditions refer to ACI 305R Hot Weather Concreting for more information. In cold weather conditions refer to ACI 306R Cold Weather Concreting for more information.

#### **YIELD**

One 50 bag of MASCO FLASH will yield approx. 0.50 cu. ft. When extended with 20 lbs clean washed 3/8" pea gravel yield will be approximately 0.60 cu. ft.

#### **CAUTIONS**

Do not apply MASCO FLASH below 40°F. Do not apply to a frost filled surface. Protect from freezing. Addition of coarse aggregates may result in variations of the physical properties of the mortar. Excessive moisture and high humidity will slow curing time. Always do a sample area first. When used as an underlayment, always follow the directions of floor covering manufacturer concerning maximum moisture content and surface bondability and perform required tests.

#### **PACKAGING**

50 lb. bag MASCO FLASH Powder.

**Storage:** 50°-85°F in protected, dry storage.

**Protect from freezing.**

**Shelf Life:** 1 year.

**Freight Class:** 55.

**DOT/UN Shipping Name:** Non-regulated

**DOT Hazard Class:** Non-regulated

**Shipping Name:** Non-regulated

#### **HAZARDS IDENTIFICATION**

**MASCO FLASH Powder:** Breathing dust may cause nose, throat, or lung irritation and choking. May cause eye irritation, severe burns and damage to the cornea. May cause dry skin, redness, discomfort, irritation or severe burns. May produce allergic reaction. Thickening of the skin (scleroderma) may be associated with exposure to high levels of crystalline silica. Ingestion of large amounts may cause intestinal distress. Prolonged inhalation of respirable silica will result in permanent lung damage, silicosis. Respirable crystalline silica is a suspected cancer agent by NTP and IARC. Read MSDS for more information.

#### **FIRST AID:**

**Inhalation:** Remove victim from exposure to fresh air. Seek medical attention.

**Eyes:** Rinse carefully with water. Seek medical attention.

**Skin:** Wash thoroughly with soap and water. Use moisturizing creams for irritated skin. Seek medical attention for burns or if irritation persists.

**Ingestion:** Do not induce vomiting but drink plenty of water. Seek medical attention for discomfort.

#### **CLEANUP INSTRUCTIONS**

Clean tools and equipment with water before MASCO FLASH. Hardened MASCO PATCH will require mechanical abrasion for removal.

**TECHNICAL SERVICE:** For Technical Service on all Masons Supply products contact:

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