

# TECHNICAL DATA SHEET

**Product:** MASCO FLASH  
**Revision Date:** 6/1/2020

## 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 15-20 minutes, and final set in 30-35 minutes. After initial set, MASCO FLASH may be shaved to conform to the contours of the surrounding surface. When properly mixed and applied, MASCO FLASH develops a very high strength and a tenacious bond.

## USES

- Repair material for tunnels, basements, concrete pipe, curbs, catch basins, vaults, formed and precast concrete
- Freeze thaw durable
- Trowelable repair mortar used at a no slump consistency

## FEATURES AND BENEFITS

- Initial set in 15-20 minutes
- Final set within 30-35 minutes
- May be "shaved" to desired shape
- High strength
- Excellent durability

## SPECIFICATIONS & TEST METHODS (MATERIAL PROPERTIES AT 75° F)

ASTM C 109, Compressive Strength	
Timeframe	PSI
24 Hour	4,000
7 Day	5,500
28 Day	7,000

  

ASTM C 266, Set Time, Gilmore	
Stage	Minutes
Initial	21
Final	35

  

ASTM C 348, Flexural Strength	
Avg. Timeframe	PSI
28 Day Avg.	800

  

ASTMC 882 Modified, Slant Shear Bond	
Avg. Timeframe	PSI
28 Day Avg.	1,800

## SURFACE PREPARATION

Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, laitance, oil, grease, 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 5-10 minutes. MASCO FLASH will require approximately 3.5 to 4 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. Mix to a stiff, putty like, no slump consistency, add remaining liquid to obtain desired consistency. Mix small quantity of MASCO FLASH in a clean pail with a margin trowel at a ratio of approximately 3.5 to 4 parts powder to 1 part mixing water. Do not mix longer than 60 seconds.

## 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, repeat steps above.

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 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.

## CURING

As per ACI 308 Standard Practice for Curing Concrete, curing of MASCO FLASH is required. Moist cure with wet burlap or

# MASCO FLASH | technical datasheet

polyethylene or a water based acrylic curing compound. Moist cure should begin immediately after finishing. Protect newly applied material from direct sunlight, wind, rain, frost and freezing.

**NOTE:** 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. 0.45 cu. ft.

## CAUTIONS

Do not apply MASCO FLASH below 40°F. Do not apply to a frost filled surface. Protect from freezing. Excessive moisture and high humidity will slow curing time. Always do a sample area first.

## PACKAGING

50 lb. bag MASCO FLASH Powder.

Storage: 50°-85°F in protected, dry storage.  
Protect from freezing.  
Shelf Life: 1 year.

## 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: Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.  
Eye Contact: Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.  
Skin Contact: Clean area of contact thoroughly using soap & water. If irritation, rash or other disorders develop, get medical attention immediately.  
Ingestion: Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

## CLEANUP INSTRUCTIONS

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

## TECHNICAL SERVICE

For application procedures or surface conditions not specified above, please contact:

**MASONS SUPPLY**  
2637 SE 12th Ave  
Portland, OR 97202  
(503) 234-4321, FAX (503) 234-5606  
[www.masco.net](http://www.masco.net)

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