



MASONS SUPPLY COMPANY

OREGON

WASHINGTON

MASCOPATCH | TWO COMPONENT REPAIR MORTAR AND UNDERLAYMENT

DESCRIPTION

MASCOPATCH is a two-component, polymer modified, portland cement, trowel grade mortar. It is a high performance repair mortar for horizontal and vertical surfaces. The MASCOPATCH powder is a portland cement based mix with graded aggregates and chemical additives. The liquid component is MASCOBOND AR, a high solids acrylic polymer. Polymer modified mortars give improved bonding, improved water resistance, and improved tensile, compressive, and flexural strength.

USES

- Flowable underlayment
- Trowelable repair mortar
- Topping product
- Horizontal and vertical repairs

FEATURES AND BENEFITS

- 1/8" to 1" application thickness, 2.5" extended with pea gravel
- High durability
- Outstanding bond strength
- User friendly
- Moist curing normally not required
- Color controlled

Material Properties at 75°F

ASTM C109		
Compressive Strength, psi		
3 days		2,500
7 days		3,800
28 days		5,000
Tensile Strength, psi		
28 days		650
ASTM C78		
Flexural Strength, psi		
7 days		700
28 days		900
ASTM C1042		
Bond Strength, 28 days, psi		1,450
ASTM C157		
Shrinkage, 28 days, %		0.0011
ASTM C666		
Freeze Thaw Durability Factor, 300 cycles		99.4%

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 1/8 inch in depth. Preparation work should be done by high pressure water blast, scabblor, or other appropriate mechanical means to obtain an exposed aggregate surface with a minimum surface profile of

±1/16 inch. Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standing water during application.

MIXING INSTRUCTIONS

In a clean container, add 3/4 gallon of undiluted MASCOBOND AR liquid. Using a 1/2" slow speed (400 600 rpm) drill and a Jiffy mixer, gradually add the MASCOPATCH powder to produce a mortar with a smooth consistency and without lumps. Add remaining 1/4 gallon MASCOBOND AR liquid to obtain desired consistency. Do not mix longer than 3 minutes. Do not add water. If extending with pea gravel, use of a mortar mixer is recommended. The aggregate should be added after the powder is added to the liquid. To fill areas deeper than 1.0 inch, MASCOPATCH should be extended with up to 20 pounds of clean 3/8 inch pea gravel. When extended, MASCOPATCH can be applied in lifts of up to 2.5 inches.

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. Mix a slurry coat of MASCOPATCH powder with undiluted MASCOBOND AR to produce a thick pourable batter consistency. Brush mixture thoroughly into voids and pores of surface to eliminate air pockets. Before slurry coat dries, follow immediately with trowel coat MASCOPATCH.

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 MASCOPATCH. Moving cracks will "telegraph" through MASCOPATCH. Apply MASCOPATCH with a trowel using sufficient pressure to fill surface holes and voids and to ensure maximum bond to the substrate. A broom, wood float or steel trowel finish may be applied to the surface. Avoid excessive troweling, as this will weaken the surface of MASCOPATCH. For repair depths greater than 1.0 inch, extend with 20 pounds of clean, dry 3/8" pea gravel per bag of MASCOPATCH. Use multiple lifts to patch deeper depths. Allow 1-2 days cure between additional lifts, scarify surface between lifts. Follow **APPLICATION TECHNIQUES** below for each additional lift.

UNDERLAYMENT OR TOPPING: Apply from 1/8" to 2.5". Pea gravel should be added when the depth exceeds 1.0 inch. When using as a vehicle traffic wearing surface, mix to a stiffer consistency (use less than one gallon of MASCOBOND AR per bag) and install to a minimum thickness of 1/4 inch. Do not featheredge when using as a wearing surface.

TROWEL APPLIED PATCHING: Mix to a stiff consistency, using less than one gallon of MASCOBOND AR per bag. Lubricate trowel and other tools with MASCOBOND AR to prevent dragging.

CURING

As per ACI 308 Standard Practice for Curing Concrete, curing of MASCOPATCH is required. Moist cure with wet burlap or polyethylene or a water based compatible curing compound such as MASCO CURE & SEAL WB. Curing compounds adversely affect the adhesion of following layers of mortar, leveling mortar or protective coatings. 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. Do not use solvent based curing compounds. Refer to "CAUTIONS", for curing in water containment structures. 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 45 bag of MASCOPATCH powder when mixed with one gallon of MASCOBOND AR liquid will yield approximately 0.42 cu. ft. When extended with 20 lbs clean washed 3/8" pea gravel yield will be approximately .55 cu. ft.

CAUTIONS

Do not apply MASCOPATCH 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. Provide adequate ventilation when using MASCOPATCH in enclosed tanks, reservoirs or other areas where air circulation is limited. Air-cure cisterns, tanks or pools for minimum 7 to 10 days before filling with water. After full cure MASCOPATCH is resistant to solvent based sealing compounds when applied correctly. MASCOPATCH may soften slightly, but will harden after evaporation of solvent. Always do a sample area first. If the repair will receive a subsequent coating or topping complete removal may be necessary. Consult coatings manufacturers' guidelines. 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

45 lb. bag as MASCOPATCH Powder. One gallon MASCOBOND AR Liquid.

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

MASCOPATCH 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.

MASCOBOND AR Liquid: Vapors from product may cause irritation to the nose, throat, and respiratory tract. Direct contact with eyes can cause slight irritation. Prolonged or repeated skin contact can cause skin irritation.

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 MASCOPATCH hardens. Hardened MASCOPATCH will require mechanical abrasion for removal.

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

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