



# MASONS SUPPLY COMPANY

OREGON

WASHINGTON

## MASCOBOND AR | LIQUID BONDING ADMIXTURE

### DESCRIPTION

MASCOBOND AR is a non re-emulsifiable, high solids, acrylic liquid bonding admixture for improving the physical properties, cure and adhesion of portland cement or gypsum mixes. MASCOBOND AR is non-yellowing, and has excellent resistance to ultraviolet degradation, heat and most common chemicals. MASCOBOND AR does not alter the color of the mixture.

### USES

Cement based coatings, toppings, patching mortars, leveling compounds, stucco, and terrazzo.

### FEATURES AND BENEFITS

- Increases flexural and tensile strength
- Improves bond strength
- Reduces shrinkage
- Resists water penetration
- Protects from freeze-thaw damage
- Non-yellowing

### COMPOSITION AND MATERIAL

MASCOBOND AR is a milky white, water based emulsion of high solids acrylic polymers and modifiers.

Weight per Gallon: 8.65 lbs.

Specific Gravity: 1.04

### SURFACE PREPARATION

Surface must be structurally sound. Remove all deteriorated concrete, dirt, oil, grease, curing compounds, coatings and all bond-inhibiting materials from surface. New concrete and masonry surfaces must be cured 28 days. 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. Follow the surface preparation directions for the product in which MASCOBOND AR is being used as an admixture.

### MIXING INSTRUCTIONS

Stir MASCOBOND AR slowly and thoroughly using slow speed mixing equipment and a clean container. Do not aerate the MASCOBOND AR with high speed mixers.

### RECOMMENDED MIXTURES

MASCOBOND PATCH: Read MASCOBOND PATCH label or datasheet for instructions.

BONDING SLURRY: Dry mix 1 part Portland cement with 1 parts dry sand and add undiluted MASCOBOND AR to produce a pourable slurry coat. Brush mixture thoroughly into voids and pores of surface to eliminate air pockets. Before slurry coat dries, follow immediately with patching materials that are compatible with portland cement.

PATCHES, OVERLAYS AND TOPPINGS: For depths  $\frac{1}{2}$  inch (12.7 mm) or greater, mix 1 part MASCOBOND AR with 2 parts potable water. Proportion dry sand, cement, aggregate and add measured amount of mixing liquid. Featheredging and repairs less than  $\frac{1}{2}$  inch (12.7 mm) deep will require additional MASCOBOND AR in the mix.

TERRAZZO: Make up a mixing liquid of 1 part MASCOBOND AR to 2 parts potable water.

FIELD MIXED STUCCO: Mix 1 part MASCOBOND AR to 2 parts potable water.

CEMENT PLASTER COATINGS: Applications  $\frac{3}{8}$  inch (0.95 cm) or less; use 1 part MASCOBOND AR to 1 parts potable water. Applications over  $\frac{3}{8}$  inch (0.95 cm); use a 1:2 mixture.

POINTING MORTARS: Tuck pointing mortars; mix 1 part MASCOBOND AR to 2 parts potable water for mixing liquid.

### APPLICATION TECHNIQUES

Minimum ambient and surface temperatures 40°F and rising at time of application. Use only light pressure on trowel and finish with as few strokes as possible. Keep trowel clean and wet to prevent sticking. Do not over-trowel. Refer to "CAUTIONS," for curing in water containment structures.

### CURING

As per ACI 308 Standard Practice for Curing Concrete, curing of portland cement mixtures is required. Moist cure with wet burlap and/or white polyethylene film for 24-48 hours 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.

## COMPLIANCES

Complies with requirements of ASTM C1059 Type 2.

## CAUTIONS

MASCOBOND AR is not a structural bonding agent. MASCOBOND HI-MOD epoxy adhesive is a structural bonding agent. Do not apply mixes modified with MASCOBOND AR when the temperature is below, or expected to fall below 40°F. Do not use with air entrained cements. Excessive moisture and high humidity will slow curing time. Provide adequate ventilation when using MASCOBOND AR 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. Concrete mix designs using MASCOBOND AR should be evaluated and tested for performance and application properties prior to use. When used as an admixture for underlayment, always follow the directions of floor covering manufacturer concerning maximum moisture content and surface bond and perform required tests. Compatibility of MASCOBOND AR with other manufacturers' products is not known and any application should follow both manufacturers' instructions. Always do a test section before proceeding with the job.

## PACKAGING

1 gallon plastic bottles, 5 gallon plastic pails, 55 gallon open top steel drums

**Storage:** 50-85°F

**Protect from freezing.**

**Shelf Life:** 1 year, unopened, protected storage.

**Freight Class:** Class 55.

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

**DOT Hazard Class:** Non-regulated

**Shipping Name:** Non-regulated

## HAZARDS IDENTIFICATION

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. If victim has difficulty breathing, administer oxygen. If breathing has stopped, administer artificial respiration. Seek medical attention.

**Eyes:** Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.

**Skin:** Wash thoroughly with soap and water for at least 15 minutes. If irritation persists, seek medical attention.

**Ingestion:** If swallowed, give 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Seek medical attention.

## CLEANUP INSTRUCTIONS

Clean tools and equipment with detergent and water immediately following use. Clean drips, spills and smears while mix is still wet. Mixes containing MASCOBOND AR are extremely difficult to remove if allowed to dry before cleaning.

## TECHNICAL SERVICE

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

MASONS SUPPLY

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masco.net

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