MASCOBOND LO-MOD

DESCRIPTION
MASCOBOND LO-MOD is a 100% solid, two component moisture insensitive, low modulus, low viscosity, epoxy resin binder adhesive system.

USES
- Broadcast binder for overlays on elevated slabs & bridges.
- Repair concrete floors in warehouses, loading docks, parking decks, ramps, and bridge decks.
- Blended with kiln dried sands for mortar patching of interior & exterior concrete subject to impact and thermal & mechanical movement.

FEATURES AND BENEFITS
- Easy 1 to 1 mixing ratio.
- Insensitive to moisture before and after cure
- Unique low modulus of elasticity.
- High early strength gain.

PHYSICAL PROPERTIES
Type: Moisture Insensitive & Low Temperature Cure Lo-Modulus Epoxy Low Viscosity
Mixing Ratio: 1A to 1B by volume
Color: Part A Resin Gray
Part B Hardener Amber
Ad-Mix Gray
Viscosity (ASTM C-881): Approx. 1,700 cps
Tack Free Time @ 75° F: 2-4 hrs
Bond Strength (ASTM C-882): 1,600 psi
Tensile Stength (ASTM D-638): 2,500 psi
Elongation at Break (ASTM D-638): 48%
Compressive Modulus (ASTM D-695): 1.0x10^5
Water Absorption (ASTM D-570): 0.27%
Shrinkage (ASTM C-883): Pass
Thermal Compatibility (ASTM C-109 mod.): Pass

Mortar (1:4)**
Compressive Strength (ASTM C-109 mod.) @ 75° F:
- 3 hrs 1,100 psi
- 24 hrs 7,000 psi
- 48 hrs (moist cure) 7,250 psi

* Ambient Temperature
** Using MASCOBOND aggregate

SURFACE PREPARATION
Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials.
Preparation work:
Concrete – Sandblast or use other approved mechanical methods.
Steel – Sanblast to white-metal finish.

APPLICATION TECHNIQUES
Broadcast Overlay: After proper surface preparation broom or use oil free compressed air to remove all dust and debris. Spread the properly mixed MASCOBOND LO-MOD on the surface using squeegees at the rate of 40 to 50 sq. ft. per gallon. A pre-marked area will serve as a guide to obtain the recommended coverage. Allow materials to level. At temperatures above 70° F materials should level immediately. At cooler temperatures a waiting period will be required. Broadcast aggregate, while epoxy is still wet and tacky, in such a manner as to permit the aggregate to fall vertically into the wet epoxy. Aggregate should be broadcast UNIFORMLY to completely cover the epoxy surface. No wet spots should be visible. Apply a slight excess amount. Aggregate is usually broadcast at the rate of 1 to 1-1/2 lbs. per sq. ft. After initial set of the epoxy EXCESS AGGREGATE MUST BE REMOVED. Brooming or a high powered vacuum is recommended. For TOUGH INDUSTRIAL AREAS a second coat is recommended. Apply SECOND APPLICATION of mixed MASCOBOND LO-MOD at the rate of 30 sq. ft. per gallon. Broadcast at the rate of 1-1/2 - 1-3/4 lbs. per sq. ft. Aggregate should be angular grain silica minimum MOH hardness of 7, washed, kiln dried and free of dirt, clay, asphalt, and other organic materials. For TOUGH INDUSTRIAL applications consider emery aggregate with a high % of aluminum oxide.

Mortar: Prime surface with premixed neat MASCOBOND LO-MOD. Apply with stiff brush and work into surface. Apply epoxy mortar while epoxy is still tacky (usually within 15 minutes 75°F). Finish with screed and steel trowel. Wipe trowel lightly with a damp rag with solvent or water for a smooth finish.

COVERAGE
Primer: for epoxy mortar apply at the rate of 75-100 square feet per gallon. Mortar: 2/3 gal of MASCOBOND LO-MOD when
mixed with 1 bag MASCOBOND AGGREGATE (40 lbs) will yield approximately .40 cubic foot. 1 gallon of MASCOBOND LO-MOD when mixed with 4 gallons by volume (60 lbs) of MASCOBOND AGGREGATE will yield approximately .60 cubic foot. 

Broadcast Binder: 1st coat 40 to 50 sq ft per gallon per coat approximately, 2nd coat (optional) 30 sq ft per gallon. 

COMPLIANCE 
MASCOBOND LO-MOD conforms to ASTM C-881-90 type III, Grade 1 Class B & C and AASHTO M-235 for epoxy resin systems.

TEMPERATURES
Will cure at temperatures as low as 40°F, providing the temperature will be 40°F and rising during the next 72 hours. Epoxies stored below 60°F will cause the epoxy to thicken substantially, making it difficult to properly blend the two materials and obtain a proper mating of resin and hardener. PROTECT FROM INCLEMENT WEATHER AND FREEZING. If product temperature falls below 50°F, it is recommended that a product temperature of 70°F be obtained prior to using.

CAUTIONS
Minimum application temperature 40°F. Minimum age of concrete must be 21-28 days depending on curing and drying conditions. Test for moisture vapor transmission prior to application. Moisture passing through the substrate by pressure during the application and after curing of epoxy will cause bond failure. Materials is a vapor barrier after cure. For application on exterior, on-grade substrates, consult Technical Service. For spray application, consult Technical Service. Do not thin with solvent. Solvent will prevent proper cure. Use only oven dry aggregate. Epoxy mortar is for interior use only. For multiple lifts applicable local, state and federal regulations. Uncured material can be removed with an approved solvent. Cured material can only be removed mechanically.

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

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