Seal Bond
adhesives sealants coatings

TECHNICAL DATA SHEET

Seal Bond | 14851 Michael Lane | Spring Lake, MI 49456
(o) 800.252.4144 (f) 616.850.0530
www.Seal-Bond.com

Seal Bond® MA-200 HIGH BUILD EPOXY COLOR COAT

Description

MA-200 is a two component 100% (+/- 1%) solids epoxy colored coating designed for applications where a high build colorfast impact resistant floor is needed.

Recommended for:

MA-200 is recommended for a high build topcoat or basecoat on concrete or masonry. Product is suitable in many chemical exposure environments.

SOLIDS BY WEIGHT: 100% (+/- 1%)

SOLIDS BY VOLUME: 100% (+/- 1%)

VOLATILE ORGANIC CONTENT:
Nearly zero pounds per gallon

STANDARD COLORS:
White, off white, light gray, medium gray, tile red, and beige

RECOMMENDED FILM THICKNESS: 12-30 mils

COVERAGE PER GALLON:
53-130 square feet per gallon @ 12-30 mils

PACKAGING INFORMATION
3 gallon kits (2.9 – 3.0 gallons net approximately)
15 gallon kits (14 – 15 gallons net approximately)

MIX RATIO:
12 pounds (1 gallon) part A to 4.15 pounds (.50 gallons) part B (volumes approx.) (standard colors)

SHELF LIFE:
1 year in unopened containers

FINISH CHARACTERISTICS:
Gloss (70-95 at 60 degrees @ Erichsen Glossmeter)

ABRASION RESISTANCE:
Taber Abraser CS-17 calibrate wheel with 1000 gram total load and 500 cycles = 32 mg loss

FLEXURAL STRENGTH:
5,400 psi @ ASTM D790

COMPRESSIVE STRENGTH:
9,100 psi @ ASTM D695 – 1/2 "X 1/2" bars

ADHESION:
450 psi @ Elcometer (concrete failure, no delamination)

VISCOSITY:
Mixed = 1300-2300 cps (typical, most colors)

DOT CLASSIFICATIONS:
Part A "not regulated"
Part B "CORROSIVE LIQUID N.O.S., 8, UNI1760, PGIII"

TENSILE STRENGTH: 4,800 psi @ ASTM D638

ULTIMATE ELONGATION: 3.1%

GARDNER VARIABLE IMPACTOR:
50 inch pounds direct – passed

HARDNESS: Shore D = 80

CURE SCHEDULE:
pot life – 1 1/2 gallon volume …….. 30-50 minutes @ 70° F
tack free (dry to touch)……..……..…5-8 hours @ 70° F
recoat or topcoat....……..…….... 8-12 hours @ 70°F
light foot traffic...…….…….……12-14 hours @ 70°F
full cure (heavy traffic)... ……..…...2-7 days @ 70°F

APPLICATION TEMPERATURE:
60-90 degrees F with relative humidity below 85%

CHEMICAL RESISTANCE:

REAGENT	RATING
xylene	C
trichloroethylene	B
methanol	A
ethyl alcohol	B
skydrol	B
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric acid	C
70% sulfuric acid	A
10% HC1 (aq)	C
5% acetic acid	B

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

PRIMER: Contact manufacturer for primer recommendations.

TOPCOAT: Optional – aliphatic urethanes can be used for increased chemical resistance or increased UV stability.

LIMITATIONS: Color stability or gloss may be affected by environmental conditions such as high humidity, low temperatures, chemical exposure or exposure to certain types of lighting such as sodium vapor lights.

*Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job.
*This product is not UV color stable and may discolor when exposed to UV lighting. Otherwise, the color stability of this product is good. Therefore, a topcoat is optional and dependent on the environment.
*Light or bright colors may require a suitable primer or topcoat to achieve a satisfactory hide.
*Substrate temperature must be 5°F above dew point.
*All new concrete must be cured for at least 30 days prior to application.
*Apply a suitable primer before using this product as a coating.
*See reverse side for application instructions.
*Physical properties are typical values and not specifications.

INSTRUCTIONS (MA-200)

PRODUCT STORAGE: Store product at normal room temperature. Continuous storage should be between 60 and 90F. Low temperatures or temperature fluctuations may cause product crystallization.

SURFACE PREPARATION: The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating.

PRODUCT MIXING: This product has a mix ratio of 12# part A to 4.15# part B or two parts A to one part B by volume for standard colors. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the primed substrate. Improper mixing may result in product failure.

PRIMING: A suitable primer should be used before applying this product. See the front side of this technical data for primer information. If a primer is not used, more porous substrates may cause outgassing and possible surface defects.

PRODUCT APPLICATION: The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating.

RECOAT OR TOPCOATING: If you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. However, all previous coats should be deglossed to insure a trouble free bond prior to application of recoats or topcoats. Colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check for epoxy blushes (a whitish, greasy film or deglossing). If a blush is present, it can be removed by any standard detergent cleaner prior to topcoating or recoating. Many epoxy coatings and urethanes as well as multiple coats of this product are compatible for use as a topcoat.

CLEANUP: Use xylol.

FLOOR CLEANING: Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

RESTRICTIONS: Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.

`

LIMITED WARRANTY

Seal Bond warrants that our products are manufactured and conform to strict quality assurance specifications. Improper use or storage may void warranty. Buyer understands that it is their sole responsibility to test and determine the suitability of the product for their practical purposes. Buyer's sole remedy for breach of warranty shall be strictly and exclusively limited to a refund of up to 100% of the purchase price of the non-conforming goods. This is the sole and exclusive remedy and liability for defects or failure of this product. This warranty is in lieu of all other warranties, written or oral, statutory, expressed or implied, including warranties of merchantability or fitness for a particular purpose. Manufacturer shall not otherwise be liable for losses or damages related to application methods and uses, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including negligence, warranty or strict liability. For complete warranty information visit www.seal-bond.com