

ARM181X

ARMORULTRA QUICK SET HIGH BUILD 100% SOLIDS EPOXY

PRODUCT DESCRIPTION

ARM181X is a two component 100% (+/- 1%) solids colored epoxy coating designed for applications where a high build impact and chemical resistant floor is needed. ARM181X has good low temperature cure capabilities down to as low as 45°F. However, ARM181X only has fair color stability and should be topcoated with an aliphatic urethane when long term color stability is a requirement. Recommended for a high build topcoat for traffic areas, chemical troughs and curbs as well as tanks and chemical spill areas for cement masonry or brick.

SPECS

SOLIDS BY WEIGHT	100%
SOLIDS BY VOLUME	100%
VOLATILE ORGANIC CONTENT	Less than 2 g/l
RECOMMENDED FILM THICKNESS	12-30 mils
PACKAGING INFORMATION	3 gallon kits, 15 gallon kits
MIX RATIO	2 Parts A to 1 Part B
SHELF LIFE	1 year in unopened containers
FINISH CHARACTERISTICS	Gloss (70-95 at 60 degrees @ glossmeter)
COMPRESSIVE STRENGTH	10,000 psi @ ASTM D695 - 1/2 "X 1/2" bars
FLEXURAL STRENGTH	7,400 psi @ ASTM D790
ADHESION	440 psi @ elcometer (Concrete failure, no delamination)
VISCOSITY	Mixed = 1000-2000 cps (typical, most colors)
HARDNESS	Shore D = 70
TENSILE STRENGTH	5,800 psi @ ASTM D638
ULTIMATE ELONGATION	3.2%
GARDNER VARIABLE IMPACTOR	50 inch pounds direct - passed
DOT CLASSIFICATIONS	Part A not regulated Part B CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII
ABRASION RESISTANCE	Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 26 mg loss

COVERAGE

PER GALLON	100-200 SF @ 12-30 mils
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COLORS

Light Gray, Medium Gray, Tile Red, and Beige. Other colors available. Inquire with Sales Representative.

CURE SCHEDULE

POT LIFE (1.5 gal volume)	15 minutes
TACK FREE (Dry to touch)	3-5 hours
RECOAT OR TOPCOAT	6-8 hours
LIGHT FOOT TRAFFIC	6-12 hours
FULL CURE (heavy traffic)	2-5 days
APPLICATION TEMPERATURE	45-90 degrees F with relative humidity below 85%

PRIMERS

Recommended ARM015X, ARM144X or other suitable primer coats

TOPCOAT

Optional. For added resistance use ARM321X

CHEMICAL RESISTANCE

Xylene	B
Trichloroethylene	B
Methanol	A
Ethyl Alcohol	B
Skydrol	C
10% Sodium Hydroxide	E
50% Sodium Hydroxide	E
10% Sulfuric Acid	D
70% Sulfuric Acid	B
10% HC1 (aq)	C
5% Acetic Acid	C

Rating Key: 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.

FEATURES



Low Temp
Drying



Multiple
Colors



Super
Durable



0% VOCs



Roll On
Application

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. See reverse side for limitations of our liability and warranty.



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PRODUCT STORAGE

Store product at normal room temperature before using. Continuous storage should be between 60 and 90 degrees F.

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 4.05# 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.

RECOATING 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. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.