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# ARM356

## ARMORGARAGE MILITARY GRADE CLEAR TOPCOAT

### PRODUCT DESCRIPTION

ARM356 is a moisture cured polyurethane (HDI based) coating that is a chemically hardened topcoat that exhibits superior scratch, abrasion and chemical resistance. This product has good UV stability.

**RECOMMENDED FOR:** Recommended for showrooms, garage floors, warehouses, laboratories, cafeterias, and most indoor chemical exposure areas where increased heavy duty durability is desired.

### SPECS

|                            |   |
|----------------------------|---|
| SOLIDS BY WEIGHT           | 65% (+/- 3%)  |
| SOLIDS BY VOLUME           | 60% (+/- 3%)  |
| VOLATILE ORGANIC CONTENT   | Less than 329 g/l   |
| RECOMMENDED FILM THICKNESS | 6-8 mils thickness  |
| PACKAGING INFORMATION      | 1 gallon, 5 gallon and 55 gallon containers   |
| MIX RATIO                  | One component   |
| SHELF LIFE                 | 3-6 months in unopened containers   |
| FINISH CHARACTERISTICS     | High gloss >70 at 60 degrees  |
| IMPACT RESISTANCE          | Gardner Impact, direct & reverse= 100 in. lb. (passed)                                      |
| FLEXIBILITY                | No cracks on a 1/8" mandrel   |
| VISCOSITY                  | Less than 200 cps (typical)   |
| HARDNESS                   | 2H  |
| DOT CLASSIFICATION         | "FLAMMABLE LIQUID N.O.S, 3, UN1993, PGIII"  |
| ADHESION                   | 360 psi @ elcometer (concrete failure, no delamination) (applied over ARM154X clear primer) |
| ABRASION RESISTANCE        | Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 4.0 mg loss   |

### COVERAGE

|            |   |
|------------|---|
| PER GALLON | 400 to 650 square feet @ 3-5 mils wet thickness |
|------------|---|

### COLORS

|                   |
|-------------------|
| Clear (gardner 1) |
|-------------------|

### CURE SCHEDULE

|                           |  |
|---------------------------|--|
| POT LIFE (1 gal volume)   | 3-5 hours  |
| TACK FREE (Dry to touch)  | 4-7 hours  |
| RECOAT OR TOPCOAT         | 9-13 hours   |
| LIGHT FOOT TRAFFIC        | 13-24 hours  |
| FULL CURE (heavy traffic) | 3-5 days   |
| APPLICATION TEMPERATURE   | 50-90 degrees F with relative humidity between 60% and 90% |

### Epoxy Basecoat

|                    |
|--------------------|
| Recommended ARM707 |
|--------------------|

### TOPCOAT


|                  |
|------------------|
| None recommended |
|------------------|

### CHEMICAL RESISTANCE


|                       |   |
|-----------------------|---|
| Acetic Acid 5%        | C |
| Xylene                | E |
| MEK                   | B |
| Methyl Alcohol        | B |
| Gasoline              | D |
| 10% Sodium Hydroxide  | E |
| 50% Sodium Hydroxide  | D |
| 10% Sulfuric          | D |
| 10% Hydrochloric Acid | D |
| 20% Nitric Acid       | C |
| Ethylene Glycol       | D |

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.

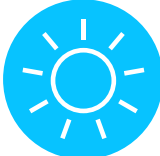
### FEATURES




**One Component Product**




**Super Durable**



**UV Stable**



**Scratch Resistant**



**Roll On Application**

### LIMITATIONS

Clarity, gloss or color may be affected by high humidity, low temperatures, chemical exposure, tire contact or exposure to lighting such as sodium vapor lights. For best results use a high quality 3/8" nap roller. Slab on grade requires moisture barrier. Substrate temperature must be 5°F above dew point. All new concrete must be cured for at least 30 days. Use a suitable primer if recoating after 24 hours, then the surface must be deglossed before the application. Surface irregularities are possible over smooth basecoats and re-coats. Contact your sales associate for recommendations. The concrete and joints must be thoroughly dry prior to application. Applying the product thicker than recommended may result in product failure. Applications in direct sunlight, high humidity or high temperatures may cause surface curing before suitable air release has occurred. Physical properties are typical values and not specifications. See reverse side for application instructions. See reverse side for limitations of our liability and warranty.



# ARM356

## ARMORGARAGE MILITARY GRADE CLEAR TOPCOAT

### **PRODUCT STORAGE**

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

### **SURFACE PREPARATION**

Not recommended for direct to concrete application. This product is intended to be applied over ARM707 High Build Military Grade Epoxy. Epoxy must be tack free and clean. Do not let more than 20 hrs pass from time of epoxy application to the application of the topcoat. If more than 20 hours have passed rough the floor up with 120 grit sandpaper. If color flakes have been used scrape the flakes down flat with any type of flat straight edge. Do not worry about scratches the topcoat will remove them. If you happen to notice a missed spot after the topcoat has dried you can sand the missed area to rough up and apply some topcoat which will blend right in.

### **PRODUCT MIXING**

Stir well. Avoid whipping air into the coating when stirring. Mix one unit of nonslip per gallon for slip resistance.

### **PRODUCT APPLICATION**

The material can be applied by brush or roller. Be sure to thoroughly roll out the material in successive passes to make sure the substrate is well wetted out. Surface irregularities are possible over smooth floors. Read the SDS before using. Maintain temperatures within the recommended ranges during the application and curing process. Properly coat the substrate with an epoxy. Too thick of an application (less than 400 sf/gal) or application to a damp surface may cause product to bubble. When using a epoxy other than those listed on the front of this technical data sheet, apply a test patch before over-coating the epoxy to determine suitability and compatibility.

### **RECOATING OR TOPCOATING**

Multiple coats of this product are acceptable but not necessary. If you opt to recoat this product, you must first be sure that all of the solvents have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat can be started. You must sand the coating with 120 grit sandpaper to rough up the surface before applying a second coat. Before recoating or topcoating, check the coating to insure no contaminants exist such as an epoxy blush. If necessary, clean the surface prior to recoating with a standard type detergent cleaner. When recoating this product with subsequent coats of the urethane, it is advisable to apply the recoat before 20 hours passes. Also, it is advisable to degloss the previous coat to insure a trouble free bond, if more than 20 hours has elapsed since the previous coat.

### **CLEANUP**

Use xylol or xylene

### **FLOOR CLEANING**

Nothing much effects this coating and harsh chemicals are not needed nor recommended but due to the sheer number of cleaners available. We recommend testing your cleaner in a small area prior to applying to the entire floor just to be safe.

### **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 MERCHANTABILITY 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.