ARMOR GARAGE LLC
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ARMORGARAGE MILITARY-INDUSTRIAL

EPOXY FLOOR SYSTEM

SYSTEM OVERVIEW

A complete three-layer, high-performance epoxy floor coating system engineered for maximum durability, chemical resistance, and UV stability. This system combines a penetrating epoxy primer, a 100% solids high-build epoxy base coat, and a military-grade polyurethane topcoat to deliver a total dry film thickness of 25+ mils with exceptional adhesion, impact resistance, and long-term color retention.

Recommended for: Military and DOD facilities, aircraft hangars, heavy equipment repair shops, high-volume factories, warehouses, auto service centers, water treatment plants, off-road vehicle storage, maintenance shops, and any environment requiring extreme durability and chemical resistance.

Chemical Resistant	UV Stable	0% VOC Base Coat	Military Grade	Roll-On Application

SYSTEM LAYERS

Layer	Product	Type	DFT	Function
Primer	ARM144X	Solvent-Based Epoxy	4–6 mils	Substrate penetration, adhesion, conditioning
Base Coat	ARM707X	100% Solids Epoxy	15-25 mils	High-build, impact resistant, chemical resistant body coat
Topcoat	ARM356X	Polyester/Aliphatic Polyurethane	4-6 mils	UV stability, chemical/abrasion resistance, gloss retention

TOTAL SYSTEM PERFORMANCE

Property	Value	Property	Value
Total DFT:	20–35+ mils (3-layer system)	**Adhesion:**	450 psi (concrete failure, no delamination)
Impact Resistance:	160 in-lb Gardner (direct & reverse) — passed	**Abrasion (Topcoat):**	Taber CS-17 / 500 cycles = 4.0 mg loss
UV Stability:	Excellent — polyurethane topcoat	**Application Temp:**	50–95°F (system dependent per layer)
Full Cure:	24-36 hours (temperature dependent)	**Colors:**	White, Off White, Lt Gray, Med Gray, Tile Red, Beige, Clear

KEY FEATURES

LAYER 1 — ARM144X EPOXY PRIMER

ARM144X is a two-component solvent-based epoxy coating that exhibits excellent characteristics for substrate penetration, adhesion, and substrate conditioning. Once cured, it cannot be separated from concrete. Suitable as a primer for high-build coatings and urethane/epoxy topcoats. Not recommended as a stand-alone coating. For use on concrete, wood, or masonry.

TECHNICAL DATA — ARM144X PRIMER

Property	Value	Property	Value
SOLIDS BY WEIGHT:	65% (±2%)	**FINISH:**	Satin gloss (30–60 @ 60°)
SOLIDS BY VOLUME:	52% (±2%)	**COVERAGE:**	250–270 sf/gal
VOC CONTENT:	< 427 g/L (mixed)	**PACKAGING:**	2 gal and 10 gal kits
FILM THICKNESS:	6–8 mils wet per coat	**SHELF LIFE:**	1 year in unopened containers
MIX RATIO:	1 Part A : 1 Part B by volume	**DOT:**	Flammable Liquid N.O.S., 3, UN1993, PGIII
VISCOSITY:	300–500 cps (mixed)	**COLORS:**	White, Off White, Lt Gray, Med Gray, Tile Red, Beige
IMPACT:	Gardner 50 in-lb direct (passed)	**PRIMERS:**	None required
FLEXIBILITY:	No cracks on 1/8" mandrel	**TOPCOAT:**	AG high-build epoxy or urethane
ADHESION:	375 psi (concrete failure, no delam)	**ABRASION:**	Taber CS-17 / 500 cyc = 30.2 mg loss

CURE SCHEDULE — ARM144X PRIMER

Stage	Time	Notes
Pot Life (2 gal)	3–5 hours	Extended working time
Tack Free	2–4 hours	Dry to touch
Recoat / Topcoat	4–6 hours	Apply base coat within this window
Light Foot Traffic	16–24 hours	
Full Cure	24-36 hours	Temperature dependent
Application Temp	50–95°F	

CHEMICAL RESISTANCE — ARM144X PRIMER

Chemical	Rating	Chemical	Rating
Acetic Acid, 5%	A	Gasoline	B
Xylene	B	10% Sodium Hydroxide	E
MEK	A	50% Sodium Hydroxide	D
Methyl Alcohol	B	10% Sulfuric Acid	C
10% Hydrochloric Acid	C	20% Nitric Acid	A
Ethylene Glycol	C		

LAYER 2 — ARM707X HIGH BUILD 100% SOLIDS EPOXY

ARM707X is a two-component 100% colored solids epoxy coating designed for applications where a high-build, colorfast, impact-resistant floor is needed. Suitable as a high-build topcoat or base coat on concrete or masonry. Zero VOC. Product is suitable in many chemical exposure environments.

TECHNICAL DATA — ARM707X BASE COAT

Property	Value	Property	Value
SOLIDS BY WEIGHT:	100%	**ELONGATION:**	3.1%
SOLIDS BY VOLUME:	100%	**ADHESION:**	450 psi (concrete failure, no delam)
VOC CONTENT:	< 2 g/L	**FINISH:**	Gloss (70–95 @ 60°)
FILM THICKNESS:	12–30 mils	**COVERAGE:**	100–200 sf/gal @ 12–30 mils
MIX RATIO:	2 Parts A : 1 Part B	**PACKAGING:**	3 gal and 15 gal kits
HARDNESS:	Shore D = 80	**SHELF LIFE:**	1 year in unopened containers
VISCOSITY:	1,300–2,300 cps (mixed)	**IMPACT:**	50 in-lb Gardner direct (passed)
COMPRESSIVE:	9,100 psi (ASTM D695)	**DOT:**	Part A: not regulated / Part B: Corrosive Liquid N.O.S., 8, UN1760, PGIII
FLEXURAL:	5,400 psi (ASTM D790)	**ABRASION:**	Taber CS-17 / 500 cyc = 32 mg loss
TENSILE:	4,800 psi (ASTM D638)	**COLORS:**	White, Off White, Lt Gray, Med Gray, Tile Red, Beige

CURE SCHEDULE — ARM707X BASE COAT

Stage	Time	Notes
Pot Life (1.5 gal)	30–40 minutes	
Tack Free	5–8 hours	Dry to touch
Recoat / Topcoat	12–20 hours	Apply topcoat within this window
Light Foot Traffic	12–16 hours	
Full Cure	2–3 days	Temperature dependent
Application Temp	60–90°F	RH below 85%

CHEMICAL RESISTANCE — ARM707X BASE COAT

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

LAYER 3 — ARM356X MILITARY GRADE TOPCOAT

ARM356X is a single-component polyester/aliphatic polyurethane floor sealer that exhibits excellent characteristics for abrasion and scratch resistance, chemical resistance, flexibility, weathering, and UV stability. Suitable for interior service only, chemical exposure areas, and any application requiring long-term durability and gloss retention.

TECHNICAL DATA — ARM356X TOPCOAT

Property	Value	Property	Value
SOLIDS BY WEIGHT:	60% colors / 56% clear (±2%)	**FINISH:**	High gloss (>80 @ 60°)
SOLIDS BY VOLUME:	53% colors / 53% clear (±2%)	**COVERAGE:**	320–500 sf/gal
VOC CONTENT:	< 448 g/L	**PACKAGING:**	3 gal and 5 gal kits (approx)
FILM THICKNESS:	4-6 mils	**SHELF LIFE:**	1 year
MIX RATIO:	Single component	**DOT:**	Flammable Liquid N.O.S., 3, UN1993, PGIII
HARDNESS:	Shore D = 75	**ABRASION:**	Taber CS-17 / 500 cyc = 4.0 mg loss
VISCOSITY:	200–400 cps (mixed)	**COLORS:**	White, Off White, Lt Gray, Med Gray, Tile Red, Beige, Clear
IMPACT:	Gardner 160 in-lb direct & reverse (passed)	**PRIMERS:**	ARM143/144, ARMX154, or ARM015X
FLEXIBILITY:	No cracks on 1/8" mandrel	**TOPCOAT:**	None recommended
ADHESION:	360 psi (concrete failure, no delam)		

CURE SCHEDULE — ARM356X TOPCOAT

Stage	Time	Notes
Pot Life (1.5 gal)	40-50 minutes	Single component
Tack Free	4-6hours	Dry to touch
Recoat / Topcoat		Second coat not needed or recommended
Light Foot Traffic/Light Vehicle Traffic	8 hrs for foot traffic/24 hrs for light vehicle traffic	
Full Cure	2-3 days	Heavy traffic and chemical exposure

Application Temp	45–90°F	RH below 90%

CHEMICAL RESISTANCE — ARM356X TOPCOAT

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

Rating Key: A – Not recommended | B – 2-hr splash/spill | C – 8-hr splash/spill | D – 72-hr immersion | E – Long-term immersion.

LIMITATIONS: Colors or gloss may be affected by high humidity, low temperatures, chemical exposure, UV exposure, or sodium vapor lighting. Primer and base coat are not UV color stable; topcoat provides UV protection. Substrate temperature must be 5°F above dew point. All new concrete must be cured for at least 30 days. Slab on grade requires moisture barrier. Colors may vary from batch to batch; use only product from the same batch for an entire job. Light or bright colors may require multiple coats or a primer to achieve satisfactory hide. Physical properties are typical values and not specifications.

NOTICE TO BUYER: 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 is not a representation or warranty. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR FIT FOR ANY PARTICULAR PURPOSE. Our liability is limited to the net selling price or replacement of our product, at our option.

Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS.