ARMOR GARAGE INC.
Manufacturers of High Performance Industrial Coatings

Phone: 866-532-3979
www.armorgarage.com
info@armorgarage.com

ARMORGARAGE II

COMMERCIAL EPOXY FLOOR SYSTEM

PRODUCT DESCRIPTION

ArmorGarage II is a two-layer commercial-grade epoxy floor coating system consisting of a 100% solids pigmented epoxy base coat and a urethane-fortified high-wear topcoat. The system delivers 12 mils total DFT with an 8 mg Taber abrasion loss rating. USDA approved for food preparation and processing areas. Meets VOC requirements for all regulated states and Canadian provinces.

Recommended for: Warehouses, aircraft hangars, auto service centers, manufacturing plants, showrooms, loading docks, food courts, machine shops, maintenance shops, pole barns, and institutional facilities. Designed for floors 1,500 sq ft and larger.

Heavy Traffic Rated	**Chemical Resistant**	**Roll-On Application**	**Multiple Colors**	**USDA Approved**

TECHNICAL DATA – BASE COAT (100% Solids Epoxy)

SOLIDS BY WEIGHT:	100%	**FINISH:**	High-gloss pigmented
SOLIDS BY VOLUME:	100%	**COVERAGE:**	160 sf/gal @ 10 mils
VOC CONTENT:	< 10 g/L (Std); compliant (Low VOC)	**PACKAGING:**	Bulk on pallets (1,500+ sf)
FILM THICKNESS:	8–10 mils (recommended)	**SHELF LIFE:**	2 years in unopened containers
MIX RATIO:	1:1 by volume (Std) / 4:1 (Low VOC)	**DOT CLASS:**	Non-flammable
HARDNESS:	Shore D > 80	**COLORS:**	Standard chart + custom (10,000+ sf)
ADHESION:	> 350 psi (concrete failure, no delam)	**CUSTOM COLORS:**	Available upon request

TECHNICAL DATA – TOPCOAT (Urethane-Fortified)

MIX RATIO:	2:1 by volume (A:B)	**FINISH:**	High-gloss (> 85 GU @ 60°)
FILM THICKNESS:	3–4 mils (recommended)	**COVERAGE:**	300 sf/gal @ 3–4 mils
ABRASION:	Taber CS-17 / 1000 cyc = 8 mg loss	**UV STABILITY:**	Excellent – non-yellowing
IMPACT RESISTANCE:	Gardner 160 in-lb direct (passed)	**NON-SLIP ADDITIVE:**	Micro-tubular aluminum (included)
COMPRESSIVE STR:	> 12,000 psi	**COEFF OF FRICTION:**	> 0.65 wet / > 0.75 dry
FLEXURAL STR:	> 8,000 psi	**WATER ABSORPTION:**	< 0.1%

CURE SCHEDULE

Stage	Time	Notes
Pot Life (1.5 gal)	30–40 minutes	Do not mix more than 1 gal per person rolling
Base Coat Dry	4–6 hours	Dry to touch; thumb test – no fingerprint
Recoat Window	6–24 hours	Apply topcoat within 24 hrs of base coat
Topcoat Dry	6–7 hours	Dry to touch
Light Foot Traffic	12–16 hours	No heavy objects or vehicles
Vehicle / Forklift	36–48 hours	Full heavy-duty service
Full Chemical Cure	5–7 days	Full chemical and abrasion resistance
Application Temp	50–90°F	Floor temp ≥ 50°F; relative humidity < 85%

CHEMICAL RESISTANCE

Chemical	Rating	Chemical	Rating
Gasoline / Diesel	**D**	Sodium Hydroxide (50%)	**E**

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Motor Oil / Hydraulic Fluid	**D**	Bleach / Sanitizers	**E**
Antifreeze / Brake Fluid	**D**	Hydrochloric Acid (10%)	**C**
Road Salt / De-icers	**E**	Sulfuric Acid (10%)	**C**
Methyl Alcohol	**B**	Nitric Acid (20%)	**B**
Xylene	**B**	Acetic Acid (5%)	**C**
MEK / Acetone	**A**	Ethylene Glycol	**D**

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

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PRODUCT STORAGE

Store product at normal room temperature before using. Continuous storage should be between 60°F and 80°F. Do not allow materials to freeze. Shelf life is 2 years from date of manufacture in unopened containers.

SURFACE PREPARATION

Surface preparation will vary according to the type of complete system to be applied. We recommend either mechanical scarification or acid etching until a suitable profile is achieved. All dirt, oil, dust, foreign contaminants, 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: place a 4' × 4' plastic sheet on the substrate and tape down the edges. If after 24 hours the substrate is still dry below the plastic sheet, the substrate is dry enough to start coating. This test also determines if hydrostatic pressure problems exist that may later cause disbonding.

Oil stain removal: Use Liquid Tide scrubbed in with muriatic acid. Test cleaned areas with water – if water soaks in without a rainbow/bluish tint, the oil has been removed.

PRODUCT MIXING – BASE COAT

Mix ratio is 1 part A with 1 part B by volume (Standard VOC) or 4 parts A with 1 part B (Low VOC). After the two parts are combined, mix well with slow-speed mixing equipment with supplied Jiffy mixer for 2.5 minutes. Avoid whipping air into the coating. Improper mixing may result in product failure. Do not mix more than 1 gallon for each person rolling.

Fast Dry version: Mix pigment packs into the large can until color is uniform. Mix at 4:1 ratio. Do not mix more than you can apply in 15 minutes. Allow 2–4 hours for primer to dry before topcoat.

PRODUCT MIXING – TOPCOAT

Mix ratio is 2 parts A with 1 part B by volume. Do not mix more than 1.5 gallons per person rolling. After mixing Part A and Part B, gently mix in Ultrawear non-slip additive at one pint per 1.5 gallons of topcoat. Stir frequently during application to keep non-slip additive suspended.

PRODUCT APPLICATION

Base Coat: Apply by 18″ roller. Pour mixed product into individual pails for each person rolling. Maintain a wet edge to avoid roller marks. Maintain the 160 sf/gal spread rate. Base coat dries in 4–6 hours. Apply topcoat when base coat is dry to the touch – should be hard and not leave a fingerprint when pressed. Do not let more than 24 hours pass before applying the topcoat.

Topcoat: Use roller pan to roll out topcoat evenly. Stir frequently to keep non-slip additive suspended. Topcoat dries in 6–7 hours for light foot traffic. Vehicle and heavier traffic requires 36–48 hours of curing.

RECOATING OR TOPCOATING

The system is designed as a two-coat application (base coat + topcoat). Additional topcoats are not typically required. If a maintenance recoat is needed after years of service, lightly scuff the existing topcoat with 100-grit sandpaper and apply a fresh topcoat. Before recoating, test by pressing with your thumb to verify no fingerprint impression is left. Colder temperatures require more cure time before recoating.

CLEANUP

Use xylene or mineral spirits. Clean any spills or splatters prior to drying. Once dried, the coating can only be removed by grinding.

FLOOR CLEANING

Harsh cleaning products should not be necessary as most surface contaminants should simply rinse off. This product is suitable for caustic washdowns where sanitation is required. USDA approved for food preparation and processing areas.

RESTRICTIONS

Restrict use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see cure schedule). Keep the floor dry through the full cure cycle. Surface may be slippery when wet or contaminated; keep surface clean and dry. Use of non-slip aggregate is recommended if the floor will be wet.

LIMITATIONS

Base coat is not UV stable without topcoat. 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. Physical properties are typical values and not specifications. Do not apply if heavy rain is forecast. Minimum floor temperature 50°F during application and through full cure period.

LOW VOC REQUIRED: CA, CT, DE, IL, IN, MD, MA, ME, NH, NJ, NY, OH, PA, RI, VA, KY, and all Canadian provinces. Select Low VOC version when ordering for these locations.

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NOTICE TO BUYER: DISCLAIMER OF WARRANTIES

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. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE 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 TO PREVENT BODILY HARM.

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