



# **HIGH PERFORMANCE EPOXY FLOOR COATING KIT**

## **DIY STEP BY STEP PROJECT INSTRUCTIONS**

Scan for Installation Video:



**MEDIUM BROADCAST**

# SAFETY INFORMATION & PROJECT TIMELINE

**BEFORE OPENING THE PACKAGE, READ ALL WARNING LABELS AND DATA SHEETS. FOLLOW ALL PRECAUTIONS.**

## SAFETY INFORMATION:

KEEP OUT OF THE REACH OF CHILDREN.

## FIRST AID TREATMENT:

If swallowed, call physician immediately. Do not induce vomiting. If in eyes, rinse with water for 15 minutes. If on skin, rinse well with water. If on clothes, remove clothes. If breathed in, move person into fresh air. For medical emergencies only, call Chemtrec 1-800-424-9300.

## PRECAUTIONS:

For best results, allow product to reach room temperature prior to mixing and application or pot life may be reduced. Use caution when handling mixed material as the chemical reaction generates heat and skin burns could result. Activated material will become hotter over time and may produce smoke. Refer to application chart and apply material within specified timeframes.

## WARNING:

Store away from children and animals

## TECHNICAL DATA & SAFETY DATA:

Please visit [www.armorpoxy.com](http://www.armorpoxy.com) for all technical and safety data information

| INSTALLATION TIMELINE    |                                                                               |                                                          |                                                                                                                     |                                                                                                           |
|--------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|                          | DAY 1                                                                         | DAY 2                                                    | DAY 3                                                                                                               | DAY 4                                                                                                     |
| INSTALLATION<br>TIMELINE | <b>PREP<br/>FLOOR</b><br>IF ACID ETCHED WAIT<br>FOR FLOOR TO DRY<br>OVERNIGHT | <b>OPTIONAL:<br/>PRIMER COAT</b><br>WAIT <b>24 HOURS</b> | <b>COAT WITH<br/>EPOXY &amp; FLAKE</b><br>WAIT <b>12-24 HOURS</b> FOR<br>FLOOR TO DRY<br>OVERNIGHT<br>FOR NEXT COAT | <b>TOPCOAT</b><br>APPLY WITHIN 24<br>HOURS FROM EPOXY<br>CURING<br><br>WAIT FOR FLOOR TO<br>DRY OVERNIGHT |





# PRE INSTALLATION CHECKLIST

## START YOUR PROFESSIONAL EPOXY FLOOR PROJECT HERE!

-  Please refer to the project checklist to confirm all required materials needed to successfully complete the project. **Ensure all items are reviewed and accounted for upon receipt of the order and before beginning the installation.**
-  Apply only to **bare concrete**. Coverage varies with surface condition, and rough or damaged floors reduce coverage.
-  Primer is recommended for porous, damaged, uneven, or mechanically prepared floors, or if absorption is inconsistent. Do not use unapproved primers. Uneven appearance due to concrete variation is not a defect.
-  Use electric heaters only (no kerosene) if needed. Work in a well-ventilated area and wear gloves, safety glasses, and protective clothing.
-  Tire staining may occur. Upgraded topcoats can lower the risk of staining. Contact ArmorPoxy for upgraded topcoat options.
-  Carefully follow these instructions and make sure you have all required supplies and materials before beginning your project. For additional support including how-to videos, professional tips, and fast answers from our support team contact visit [www.armorpoxy.com](http://www.armorpoxy.com), email: [support@armorpoxy.com](mailto:support@armorpoxy.com), or call **1-888-755-7361**

**NOTE:** These instructions are for all ArmorPoxy epoxy kit sizes

| PROJECT CHECKLIST                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  INCLUDED                                                                                                                                                                                                                                                                                                                                          |  SUPPLIES NEEDED                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"><li>• Bucket with:<ul style="list-style-type: none"><li>◦ Epoxy Part A</li><li>◦ Epoxy Part B</li></ul></li><li>• UltraGlaze Topcoat</li><li>• Powdered Concrete Etch</li><li>• Non-Skid Additive for Topcoat</li><li>• Decorative Flakes</li><li>• 9" Rollers</li><li>• Spiked Shoes</li><li>• Squeegee</li><li>• Paint Brushes</li><li>• Gloves</li><li>• Mixer</li><li>• Mixing Sticks</li></ul> | <ul style="list-style-type: none"><li>• 9" Roller Frame</li><li>• Painting Extension Pole</li><li>• Power Drill</li><li>• Pressure Washer or Hose with High Pressure Spray Nozzle</li><li>• Bristled Scrub Brush</li><li>• Protective Eyewear</li><li>• Facemask or Respirator</li><li>• Paint/Roller Tray</li><li>• Painters Tape</li><li><b>OPTIONAL</b><ul style="list-style-type: none"><li>• Concrete Crack Repair</li><li>• Xylene - for cleanup</li><li>• Concrete Degreaser</li><li>• Mechanical Grinder</li><li>• Mixing Cups</li></ul></li></ul> |

*\*Kits purchased with **primer** or **upgraded topcoat** will come with other materials. See further instructions*

# CONCRETE PREPARATION

## IMPORTANT

- This product is intended for **interior concrete only**. It should not be used in areas exposed to direct sunlight.
- **Apply only when air temperature is 50°F - 90°F**. Do not apply if temperatures are expected to drop below 50°F or above 90°F.
- Check for **moisture**: Tape down a 4'x4' plastic sheet for 24 hours. If moisture appears or the floor darkens, further testing is required. Moisture above 3.5 lbs/1000 sq ft/24 hrs must be treated before coating. Contact ArmorPoxy if unsure.
- Store product in **cool environment** for 24 hours before application
- Check working time of product at each section. Plan your project accordingly. It's recommended to have additional person to assist with installation.

**Before starting your project, inspect the concrete surface for the following conditions and complete any necessary preparation steps prior to coating application:**

| CONDITION                     | ACTION REQUIRED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NEW CONCRETE                  | Newly poured concrete must cure for a minimum of 30 days prior to coating application.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| CRACKED CONCRETE              | Repair all cracked or damaged concrete prior to applying the coating. The coating is not designed to fill cracks, chips, or pitted surfaces. If a compatible concrete crack filler is used, follow the manufacturer's instructions and allow all repaired areas to dry thoroughly before coating application.                                                                                                                                                                                                          |
| PAINTED CONCRETE              | All existing paint must be completely removed prior to coating application.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SEALED & OIL STAINED CONCRETE | All concrete sealers must be completely removed prior to coating application to ensure proper adhesion. To test for the presence of a sealer, pour a small amount of water onto the concrete surface. If the water absorbs into the concrete, the surface is porous enough for coating application. If the water beads on the surface, the concrete is not sufficiently porous and should be mechanically sanded or prepared before applying the coating. Use ArmorPoxy Oil Stop Epoxy Primer for severe oil staining. |
| DAMP CONCRETE                 | Concrete must be completely dry prior to coating application to ensure proper adhesion and optimal performance. Allow the surface to fully dry before applying the coating.                                                                                                                                                                                                                                                                                                                                            |



# STEP 1

# SURFACE PREPARATION



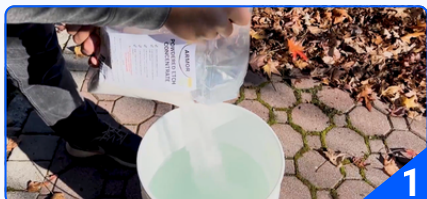
**SURFACE PREPARATION IS THE MOST IMPORTANT STEP AND MUST NOT BE SKIPPED.**

## 1. CLEAN THE SURFACE

Remove all dirt, dust, oil, grease, and any loose or peeling material. Use a degreaser on oil stains.

Prepare the concrete by etching or grinding so the surface becomes rough and porous.

## 2. ETCHING



**1)** To etch, mix the powdered etch with **water** (30–60 seconds until dissolved) using **2 gallons per 1 lb (or 4 gallons per 2 lbs)** (Adding more water will dilute the strength of etch).



**2)** Pre-wet the floor with power washer or high pressure hose, **apply evenly with a stiff-bristled broom** or mop, and let sit for **10 minutes** (light foaming is normal). **Scrub** the surface while it soaks.



**3)** **Rinse** thoroughly with high pressure hose or power washer and remove all residue. **Wet nearby areas** first to prevent unwanted etching, then **remove standing water** with a broom. If the surface is not fully clean, repeat or use a degreaser (wire brush for heavy buildup).

## 3. DRYING & TESTING

Allow the floor to **dry completely**, usually overnight. The surface should feel slightly rough and look dull, not smooth or shiny.

**Test by sprinkling water on the floor.** If the water beads, repeat the prep.

## 4. REPAIRS

**Repair all cracks, holes, or damaged areas** before coating.

Use an appropriate **crack filler** and do not use silicone-based products, as epoxy will not adhere to them. Contact ArmorPoxy for crack filler.

## 5. TAPE OFF

Tape off all edges, walls, and areas you do not want coated.



**Do not coat a damp or wet surface, as bubbling may occur.**

# STEP 2

# PRIMER (OPTIONAL)



Priming is optional but strongly recommended for **porous, repaired, uneven, or mechanically prepared floors**, and for lighter colors.

## 1. MIXING



Mix the primer according to the label:

- **Standard primer (orange label)** uses a **1:1 mix ratio** (Use respirator)
- **Low-VOC primer (dark blue label)** uses a **4:1 mix ratio**

Thoroughly mix the **pigmented can** to fully disperse any pigment that has settled to the bottom before mixing A and B together. Mix A + B thoroughly with a drill mixer for 2-3 minutes until fully blended.

## 2. APPLICATION



Apply a thin, even coat using a 1/4" or 3/8" nap roller. Some unevenness at this stage is normal.

## 3. DRYING & CLEANING

Allow the primer to dry for **24 hours** before proceeding to next step.

| TECH DATA    | Standard VOC Primer  | Low VOC Primer        |
|--------------|----------------------|-----------------------|
| Label Color  | Orange Label         | Blue Label            |
| Product Code | ARM144X              | ARM015X               |
| Pot life     | 45 minutes           | 1-1.5 hours           |
| Mix ratio    | 1 Part A to 1 Part B | 4 Parts A to 1 Part B |





**THE EPOXY MUST BE MIXED AT A STRICT 2:1 RATIO OF PART A (RESIN) TO PART B (HARDENER).**

**Proper mixing is critical, as unmixed material will not cure correctly and is not covered under warranty.**

## 1. MIXING PART A

Before mixing, shake or rotate Part A to redistribute pigment.

If using multiple kits, combine all Part A components first to ensure consistent color.



If your kit came with **tint and clear** epoxy see epoxy tinting **page 9** for **tinting instructions**



**Do not add Part B until you are ready to mix and apply the coating.**

**Do not mix the entire kit at once**, as large volumes can overheat and begin curing in the bucket (***no more than 1.5 gallons total*** at a time).

## 2. MIXING PARTS A & B

MIX RATIO  
**2:1**



Once mixed, working time is approximately **15–20 minutes** at 70°F and will decrease in warmer conditions.



Mix **smaller batches** when applying epoxy around the **perimeter** of the space to improve working time and control.



Combine the components in the correct ratio in a clean bucket. Mix with a power drill and metal mixer for **2–3 minutes** at medium to high speed, moving the mixer along the sides and bottom. Mix until the color is uniform and all streaks or "veins" disappear.

To extend working time, pour the material onto the floor immediately, as it stays workable longer on the cooler surface than in the bucket.



**Avoid overmixing at high speeds** that introduce air bubbles.



## 3. EPOXY APPLICATION



1) Cut in edges and corners with a brush.



2) Pour the epoxy directly onto the floor in a bead or ribbon. Use the **spiked shoes** to walk around the coated floor easier.



3) Spread the coating evenly using the roller, to achieve a smooth, uniform finish. Work in **small sections** while moving backward toward the exit point. Apply in an “M” or “W” pattern and maintain a wet edge by overlapping each newly coated section into the previous one. A squeegee may be used for a thicker coating, but can be more difficult to control than a roller.

 **Work quickly without leaving material sitting in the bucket or in direct sunlight.**

## 4. DECORATIVE FLAKES (OPTIONAL)



1) **Apply flakes while the epoxy is still wet** by putting a small amount in your hand and toss them high into the air over the coated section. Flakes should be dispersed as evenly as possible. Use the spiked shoes to walk on the wet floor.

 **Practice throwing a small portion before you start applying the epoxy!**

2) Continue section by section, using pre-divided portions of flakes to ensure even coverage.



### WARNING

Do not apply topcoat until the floor is completely dry.

# STEP 3 EPOXY- TINTING INSTRUCTIONS

Skip this page if your epoxy is **Pre Tinted**

## 1. TINT EPOXY



1) Pour ALL of Part A into mixing bucket.



2) Add ALL of tint into part A and mix thoroughly for **2-3 minutes**.



**ONE** tint pod for each  
**1.5 gallon of epoxy**



**TWO** tint pods for  
each **3 gallons** of  
epoxy

## 2. MIXING PARTS A & B



Once mixed, working time is approximately **15-20 minutes** at 70°F and will decrease in warmer conditions.

MIX RATIO

**2:1**



Mix **smaller batches** when applying epoxy around the **perimeter** of the space to improve working time and control.



Combine the components in the correct ratio in a clean bucket. Mix with a power drill and metal mixer for **2-3 minutes** at medium to high speed, moving the mixer along the sides and bottom. Mix until the color is uniform and all streaks or "veins" disappear.

To extend working time, pour the material onto the floor immediately, as it stays workable longer on the cooler surface than in the bucket.



**Avoid overmixing at high speeds** that introduce air bubbles.

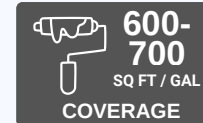
SEE SECTION 3 & 4 (PAGE: 8)  
FOR NEXT STEPS



## OPTION 1: ULTRAGLAZE (1-PART TOPCOAT)

- 1) Open the container and mix thoroughly. If using anti-slip additive, add **1 bag per gallon (1 half bag per ½ gal)** and stir well.
- 2) Pour a small amount into a roller tray and wet the roller. Apply in a thin, even coat. Stir occasionally during application to keep the non skid evenly dispersed.

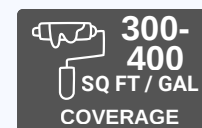
 **The product may appear milky during application but will dry clear.**



## OPTION 2: 2-PART MILITARY GRADE TOPCOAT

**MIX RATIO**  
**2:1**  
Part A : Part B

- 1) Mix **2 parts A with 1 part B** using a drill mixer for 2-3 minutes until fully blended.
- 2) Add the Ultrawear additive at **½ can per gallon of mixed material** and mix thoroughly, as it can settle.
- 3) Pour a small amount into the roller tray. Remix the product in the can before each pour to keep the non skid evenly dispersed. Apply in a thin, even coat.

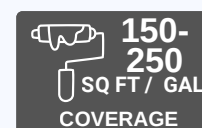


## OPTION 3: POLYASPARTIC TOPCOAT

**MIX RATIO**  
**1:1**  
Part A : Part B

- 1) Mix **1 part A with 1 part B** using a drill mixer for 2-3 minutes until fully blended.
- 2) Add the ArmorGrip non skid additive. Add **2 bags** per 2 gallon gallons and mix thoroughly, as it can settle.
- 3) Pour the coating onto the floor immediately and spread it evenly using a roller.

 **Working time is 15-20 minutes before product hardens. Mix in half batches.**



 **Do not use a squeegee for any of these topcoat systems.**

# RETURN TO SERVICE

## RETURN TO SERVICE / MAINTENANCE



Refer to the **page 10** for cure and return to service times based on the topcoat used.

## CLEANUP

Clean tools and spills immediately using xylene or a similar solvent before the material hardens. Once cured, the coating can only be removed mechanically.

## MAINTENANCE

Maintain the finished floor by cleaning it regularly with a mild, non-bleach detergent and water. For best long-term performance, the topcoat can be reapplied over time depending on wear and usage.



# TROUBLESHOOTING YOUR PROJECT & FAQ

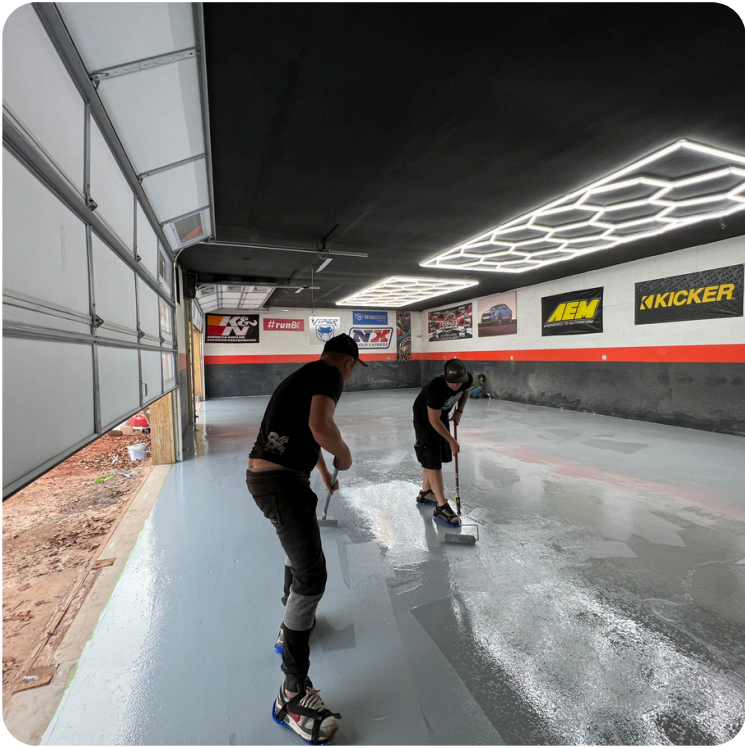
| CONCERN                                            | POSSIBLE CAUSES                                                                                                                                                                               | GUIDANCE                                                                                                                                                                                                                                                        |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tire stains or dark spots on concrete              | <ul style="list-style-type: none"> <li>• Tire plasticizers soaked into concrete</li> <li>• Tire shine or automotive chemical residue</li> <li>• Oil contamination</li> </ul>                  | <ul style="list-style-type: none"> <li>• Sand or grind affected areas aggressively</li> <li>• Scrub with a wire brush</li> <li>• Thoroughly etch and rinse before coating</li> <li>• Use ArmorPoxy Oil Stop Primer for oil staining</li> </ul>                  |
| Water beads on the concrete surface                | <ul style="list-style-type: none"> <li>• Sealer present on concrete</li> <li>• Oil or contamination on slab</li> <li>• Surface not porous enough</li> </ul>                                   | <ul style="list-style-type: none"> <li>• Sand or mechanically grind the floor</li> <li>• Acid etch as needed</li> <li>• Retest until water absorbs evenly into the concrete</li> </ul>                                                                          |
| Moisture may be present in the slab                | <ul style="list-style-type: none"> <li>• High moisture vapor emissions</li> <li>• Inadequate concrete cure time</li> <li>• Hydrostatic pressure</li> </ul>                                    | <ul style="list-style-type: none"> <li>• Tape down a 4' x 4' clear plastic sheet for 24 hours</li> <li>• If moisture forms beneath the plastic, do not coat the floor</li> <li>• Contact technical support for moisture mitigation guidance</li> </ul>          |
| Cracks or damaged concrete                         | <ul style="list-style-type: none"> <li>• Existing surface cracking</li> <li>• Pitting or chipped concrete</li> </ul>                                                                          | <ul style="list-style-type: none"> <li>• Repair cracks before coating</li> <li>• Use epoxy crack filler for hairline cracks.</li> <li>• Do not use silicone-based fillers or caulks</li> </ul>                                                                  |
| Product became too thick or hardened in the bucket | <ul style="list-style-type: none"> <li>• Product sat too long after mixing</li> <li>• Excessive heat buildup (exothermic reaction)</li> <li>• Large volume left in bucket too long</li> </ul> | <ul style="list-style-type: none"> <li>• Pour material onto the floor immediately after mixing</li> <li>• Do not leave mixed product in the bucket longer than recommended</li> <li>• If smoke appears, move the bucket outdoors immediately if safe</li> </ul> |
| Existing paint or coating on the floor             | <ul style="list-style-type: none"> <li>• Existing coating is poorly bonded</li> <li>• Surface is too smooth for adhesion</li> <li>• Old coating traps moisture beneath new coating</li> </ul> | <ul style="list-style-type: none"> <li>• Mechanically remove existing coatings whenever possible</li> <li>• Sand remaining coatings thoroughly</li> </ul>                                                                                                       |

# TROUBLESHOOTING YOUR PROJECT & FAQ

| CONCERN                                                           | POSSIBLE CAUSES                                                                                                                                                                                                    | GUIDANCE                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The coating is taking longer than expected to cure                | <ul style="list-style-type: none"> <li>Parts A &amp; B were not mixed properly</li> <li>Cool temperatures below 50°F</li> <li>Moisture in the concrete</li> <li>Heavy application thickness</li> </ul>             | <ul style="list-style-type: none"> <li>Allow additional cure time in cooler temperatures</li> <li>Ensure concrete is completely dry before coating next coat</li> <li>If floor remains tacky after extended cure time, contact support</li> </ul>                             |
| Some areas are dull or less glossy                                | <ul style="list-style-type: none"> <li>Uneven coating thickness</li> <li>Highly porous concrete absorbed more material</li> <li>Product applied too thin</li> <li>Inconsistent floor preparation</li> </ul>        | <ul style="list-style-type: none"> <li>Apply a second coat to affected areas if desired</li> <li>Prime highly porous concrete</li> <li>Maintain consistent spread rates during application</li> </ul>                                                                         |
| Bubbles or pinholes formed after application                      | <ul style="list-style-type: none"> <li>Outgassing from concrete</li> <li>Rising concrete temperatures</li> <li>Air trapped in porous concrete</li> <li>Over-rolling the coating</li> </ul>                         | <ul style="list-style-type: none"> <li>Small bubbles or pinholes generally do not affect adhesion</li> <li>Apply during stable or falling temperatures</li> <li>Properly etch or grind the floor before coating</li> <li>Sand and recoat affected areas if desired</li> </ul> |
| The coating is peeling or delaminating <i>*After Installation</i> | <ul style="list-style-type: none"> <li>Inadequate cleaning or preparation</li> <li>Existing paint or sealer not fully removed</li> <li>Moisture in the slab</li> <li>Oil, grease, or tire contamination</li> </ul> | <ul style="list-style-type: none"> <li>Sand and recoat affected areas if desired</li> <li>Use ArmorPoxy Touch up kit to touch up the area</li> </ul>                                                                                                                          |
| Newly poured concrete                                             | <ul style="list-style-type: none"> <li>Concrete has not fully cured</li> <li>Excess moisture remains in slab</li> <li>Surface laitance still present</li> </ul>                                                    | <ul style="list-style-type: none"> <li>Allow approximately 30 days cure time before coating</li> <li>Perform a moisture test before application</li> <li>Acid etch or mechanically grind the floor prior to coating</li> </ul>                                                |







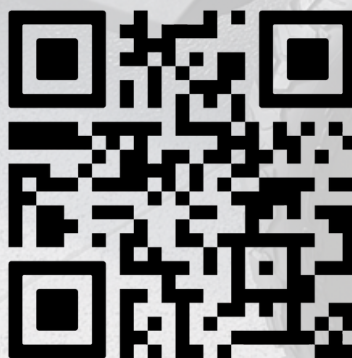




# **ARMOR POXY**

**INNOVATIVE COATINGS**  
**SINCE 1998**

Scan for Installation Video:



VERSION 10.2  
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