



# EA Color Armor™

High-Performance, Polymer-Modified  
Curb & Traffic Marking and Micro-Fissure Repair Mortar

It's not a Coating...  
... it's a Molecular Bond

Stop Painting Your Lines,  
Armor Them!



Global Sealer  
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High-Performance, Polymer-Modified  
Curb & Traffic Marking Micro-Fissure Repair Mortar

## It's Not a Coating... It's a Molecular Bond

### Introducing EA Color Armor™

Long Lasting, Aesthetic Micro-Topping & Traffic Marking System



Ecobeton® Vetrolfluid®  
EA Color Armor™ Mortar  
EA Primer™ - Mixing Fluid

### EA Color Armor™ System Components

EA Color Armor™ rolls on like paint, covering in one coat and back to service in an hour.



When we engineered EA Color Armor™, we didn't just look at creating a better aesthetic coating; we looked at the molecular science behind concrete and coatings failure.

EA Color Armor™ is an advanced, polymer-modified cementitious product. Unlike traditional coatings that sit on top of the pavement, EA Color Armor™ System is designed to flow directly into those microscopic fissures and tight hairline cracks that threaten concrete infrastructure. By filling these voids entirely, the EA Color Armor™ System creates an impermeable shield against moisture. During freezing temperatures, there is no trapped water to expand, which significantly reduces freeze-thaw spalling and cracking over time.

Best of all, this ultra-fine formulation gives it incredible fluidity. It is refined enough to be applied seamlessly as a crisp line marker, yet stable enough to be used as an ultra-fine crack filler and aesthetic overlay across small to massive horizontal or vertical surfaces.

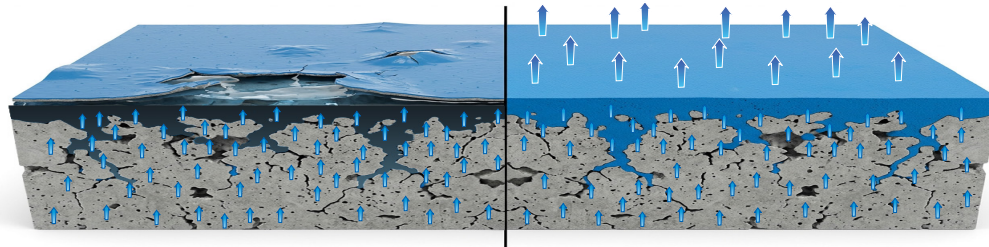
#### TECHNICAL ADVANTAGES:

- Significantly improves concrete and asphalt surface appearance
- Superior product for curb, traffic and safety markings
- Significantly increases lifecycle of applied surface
- Eco friendly water-based technology
- Available in 8 standard colors
- Smooth finish
- Fast and easy to apply
- Interior and exterior use, including drive surfaces
- Can be applied to vertical surfaces
- Extremely abrasion resistant

The final application of Ecobeton™ Vetrolfluid™, locks the pigment to the substrate and provides protection against harmful chloride ion penetration and carbonation, significantly extending the life-cycle of the surface and substrate.

# EA Color Armor™ Aesthetic Micro-Topping & Traffic Marking System

## The Science behind the EA Color Armor™ System: How it works



**Traditional topical line paints and acrylic coatings**  
cracks trap water; freeze-thaw cycling accelerates spalling and delamination.

**EA COLOR ARMOR™** — impermeable, sealed surface with uniform vapor release. A molecular bond with no trapped moisture.

EA Color Armor™ utilizes a dual-action polymer-cement matrix. EA Color Armor™ System achieves water impermeability (blocking rain and chemicals from entering), while maintaining vapor permeability (allowing the sub-base concrete to breathe out natural subterranean moisture). It is this unique chemistry of a cement-to-cement bond that allows it to breathe where traditional non-permeable coatings suffocate and ultimately lead to failure.

## Traffic Paint vs. Thermoplastic vs. EA Color Armor™

|                                           | Traffic Paint                                                                                                                    | Thermoplastic                                                                                                                      | EA Color Armor™                                                                                                              |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Lifecycle Cost</b>                     | ●○○ Lowest material cost per application, but frequent recoating drives up cumulative labor and traffic-control cost.            | ●●○ Higher material and install cost than paint. Longer service interval reduces, but doesn't eliminate reapplication cycles.      | ●●● More application steps upfront, engineered to significantly increase service life and reduce reapplication frequency.    |
| <b>Freeze-Thaw Performance</b>            | ●○○ A thin surface film; it does nothing to stop moisture already migrating into the substrate, where freeze-thaw damage starts. | ●●○ A more rigid film that resists wear but can crack and delaminate at edges as the substrate beneath keeps freezing and thawing. | ●●● Flows into hairline fissures and bonds at the substrate level, closing the pathways that let freeze-thaw spalling start. |
| <b>Water Impermeability</b>               | ●○○ Minimal barrier — moisture passes through pinholes, seams, and worn areas over time.                                         | ●●○ Forms a surface barrier, but doesn't address existing cracks, leaving water to migrate beneath the film at joints and edges.   | ●●● Engineered to block rain and chemical intrusion at the surface, filling the voids that would otherwise let water in.     |
| <b>Vapor Transmission (Breathability)</b> | ●○○ Low-permeability film; can trap subsurface moisture beneath it.                                                              | ●○○ Essentially non-breathing. Trapped sub-base moisture with nowhere to go contributes to blistering and delamination.            | ●●● Polymer-cement matrix stays vapor permeable, the sub-base keeps breathing out moisture as the surface stays sealed.      |

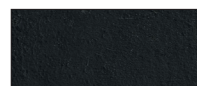
## EA Color Armor™ is available in these Federal Standard 595 colors



Natural



37925 - Insignia White



37038 - International Black



31136 - Insignia Red



33655 - Safety Yellow



35180 - Flat Blue



31350 - Safety Red



34108 - Dark Green

*Please note that slight color variations from batch to batch are inherent due to small variations in pigment mixing and the manufacturing process. While every effort is made to maintain consistency, factors such as raw material characteristics, application conditions, substrate variation, and curing may result in minor differences in color.*

The EA Color Armor™ System bonds molecularly to the concrete matrix, filling micro-fissures and minimizing freeze-thaw cycle damage. It isn't a coating; it becomes part of the surface.

# EA Color Armor™ System

## Technical Data & Application Instructions



### DESCRIPTION

GST International's EA Color Armor™ System includes EA Color Armor™, EA Primer™ - Mixing Fluid, and Ecobeton®- USA Vetrolfluid®.

EA Color Armor™ is a polymer modified, single component, cement-based system for use on existing concrete and asphalt surfaces. The preferred method for application of EA Color Armor™ is with a GST Roller up to 1/2" (13mm) nap, paint brush and most types of spray equipment. Application method and tools used will depend on the substrate being repaired and end use. **Please call GST International for additional information.**

EA Color Armor™ is ideal for filling fine cracks and as an ultra-thin overlay for visual surface enhancement. It can also be used as a permanent pavement marking product for use on: roadways, parking lots, safety markers, etc.

### COLORS:

- |                    |                        |                      |                             |
|--------------------|------------------------|----------------------|-----------------------------|
| • Natural          | • 37925 Insignia White | • 35180 Flat Blue    | • 37038 International Black |
| • 34108 Dark Green | • 31350 Safety Red     | • 31136 Insignia Red | • 33655 Safety Yellow       |

### SHELF LIFE

Up to 3 years in its original unopened package and stored in a humidity controlled environment. (Not exposed to moisture or high humidity.)

### PACKAGING

- 33 lb (15kg) plastic lined bags

### COVERAGE / YIELD

A 33 lb. (15kg) bag of EA Color Armor™ will cover up to 1,400ft<sup>2</sup> (130m<sup>2</sup>) in a single coat. Coverage can change based on existing substrate conditions, such as the porosity. If applying EA Color Armor™ over entire concrete panels, additional coats may be required to achieve the desired finish. *Note: Coverage rates are approximate.*

### PRIMARY APPLICATIONS

Curbs, walkways, ramps, slabs, spalls, cracks, airports, bridges, parking structures, tunnels, dams, malls, and industrial plants, hospitals, and government facilities.

### DIRECTIONS FOR USE

**Surface Preparation:** Surfaces to be treated with EA Color Armor™ must be clean, sound and free from contaminants that can act as a bond breaker (such as oil, grease, dirt, curing compounds, acids, etc.)

Extremely dense or smooth surfaces should be profiled prior to application of EA Color Armor™. (bead blast, grinding)

The damaged substrate may require pretreatment with GST International Degreaser Pro or Pro-Grade Cleaner, followed by power-washing to remove the contaminants from the surface.

**Priming** — Priming is not necessary with EA Color Armor™ System, as EA Primer™ - Mixing Fluid is used as the mixing fluid. Saturated Surface Dry (SSD) preparation is mandatory.

### IMPORTANT

*Any major spalls or displacements or deep cracks to the area being treated should be repaired using Elephant Armor® DOT Mortar prior to the placement of EA Color Armor™.*

*Be sure to refer to Elephant Armor™ DOT Mortar installation instructions as they differ from the EA Color Armor™ instructions.*

### Mixing:

Standard mix design for all applications is 1:1, meaning 1 part EA Color Armor™ with 1 part EA Primer™ - Mixing Fluid by volume. Mix the dry contents in a clean and dry bucket to "fluff" the material prior to adding the EA Primer™ - Mixing Fluid. Add the EA Primer™ - Mixing Fluid and mix thoroughly using a ColloMix Xo-55 Duo mixer. For small amounts of material (10 lbs or less) a ½" drill with an egg beater bit is acceptable.

**NOTE:** If your EA Primer is discontinued stock and the label does not denote EA Primer & Mixing Fluid, follow these instructions. Standard mix design for all applications is 1:1, meaning 1 part Color Armor™ with 1 part Elephant Armor® Primer/water mixture (1:1), by volume.

Mix for approximately 60 seconds or until the EA Color Armor™ achieves the consistency desired.

*NOTE: EA Color Armor™ has a short workability period with an initial set time of 10-15 minutes.*

### Application of EA Color Armor™:

#### When used as a Crack Fill:

Pour the EA Color Armor™ directly into the cracks to rejection and remove any excess using a sponge or micro-fiber pad.

#### When used as a Surface Overlay:

EA Color Armor™ should be applied with the GST International smooth roller, (preferred method) paint brush or most types of spray equipment. Applies like paint.

### Application of Vetrolfluid®

Once the EA Color Armor™ has cured (minimum 2 hours, depending on the ambient temperature) apply a single light coat of Ecobeton®- USA Vetrolfluid®. Using a low-pressure sprayer, apply the Ecobeton®- USA Vetrolfluid® in one even coat at an application rate of 300-400 ft<sup>2</sup>/gallon. To avoid any surface pooling, use a clean concrete finishing broom to evenly disperse the Ecobeton®- USA Vetrolfluid®.

Open to traffic 2 hour after Vetrolfluid application.

*Note: wait 5 to 7 days after Ecobeton®- USA Vetrolfluid® application for light surface cleaning and 21 days for heavy surface cleaning.*

Existing concrete that shows signs of distress and salt damage will need a coat of vetrolfluid applied prior to EA Color Armor™.

If the concrete is weak or degraded, apply a light coat of Ecobeton®-USA Vetrolfluid® at a rate of 250-300 ft<sup>2</sup>/gal. to stabilize the surface. Be careful not to over apply. Allow 72 hours curing time prior to the placement of Color Armor™. The surface must be thoroughly re-cleaned of all bond breaking contaminants that were brought to the surface by the Vetrolfluid® application. For additional technical information visit [www.ecobeton-usa.com](http://www.ecobeton-usa.com).

### Clean-Up:

EA Color Armor™ is fast curing, have additional water on hand to clean the mixer blades and other tools as they are used.

### PRECAUTIONS / LIMITATIONS:

- Use required PPE, Safety Equipment and use Best Practices.
- Follow ACI Hot Weather Concreting 305R-99 procedures.
- Do not apply EA Color Armor™ at temperatures below 40° F (4° C) or to frozen surfaces.
- Do not apply if rain, heavy dew are forecast within 24 hours of application.
- Avoid application in high winds or direct, intense midday sunlight.
- Consult the Safety Data Sheet in all cases before use.
- For cracks wider than 1/8" (3mm), use Elephant Armor® DOT.
- Maintain exact EA Primer™ - Mixing Fluid to EA Color Armor™ ratios across all batches to ensure color uniformity.
- Do Not Bridge Joints: Always honor existing concrete expansion and control joints.
- Do not use on 'working cracks'.



**DANGER**  
**DO NOT BREATHE DUST**  
**AVOID CONTACT WITH SKIN AND EYES!**

EA Color Armor™

Contains: Aluminosilicate Glass, Calcium Sulfoaluminate Cement  
CAS# 960375-09-1, Cement, Quartz CAS# 14808-60-7

Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**IF ON SKIN:** Wash with plenty of water and soap. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.



**WARNING**

**Proposition 65:** One or more of the components contained in this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

### KEEP OUT OF THE REACH OF CHILDREN

This product is made from the finest raw materials available and manufactured to proven formulation under strict quality control for its intended use. However, results obtained with the use of this product under a variety of conditions may depend on circumstances beyond our control.

GST International, Inc. (including the seller thereof) warrants only that its products will be free from defects in materials. GST International, Inc.'s (including the seller thereof) sole obligation, and the purchaser's (including the person using or benefiting from its use) sole and exclusive remedy in the event of a defect covered by the foregoing warranty, shall be, at GST International, Inc.'s discretion, to (a) replace the defective product, or (b) refund to the purchaser the purchase price paid for such defective product. There are no warranties other than the limited express warranty provided above. In no event shall GST International, Inc. (or the seller of its products) be liable for incidental or consequential damages resulting or arising from the use of its products.

For SDS, please visit [www.gstinternational.com](http://www.gstinternational.com)



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Technologies

Manufactured Under Patent in the USA

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## Eliminating Delamination Failures