



Elastocolor[®] Coat

**Water-Based, High-Build,
100%-Acrylic, Waterproof
Coating**

Effective carbon dioxide diffusion and chloride barrier

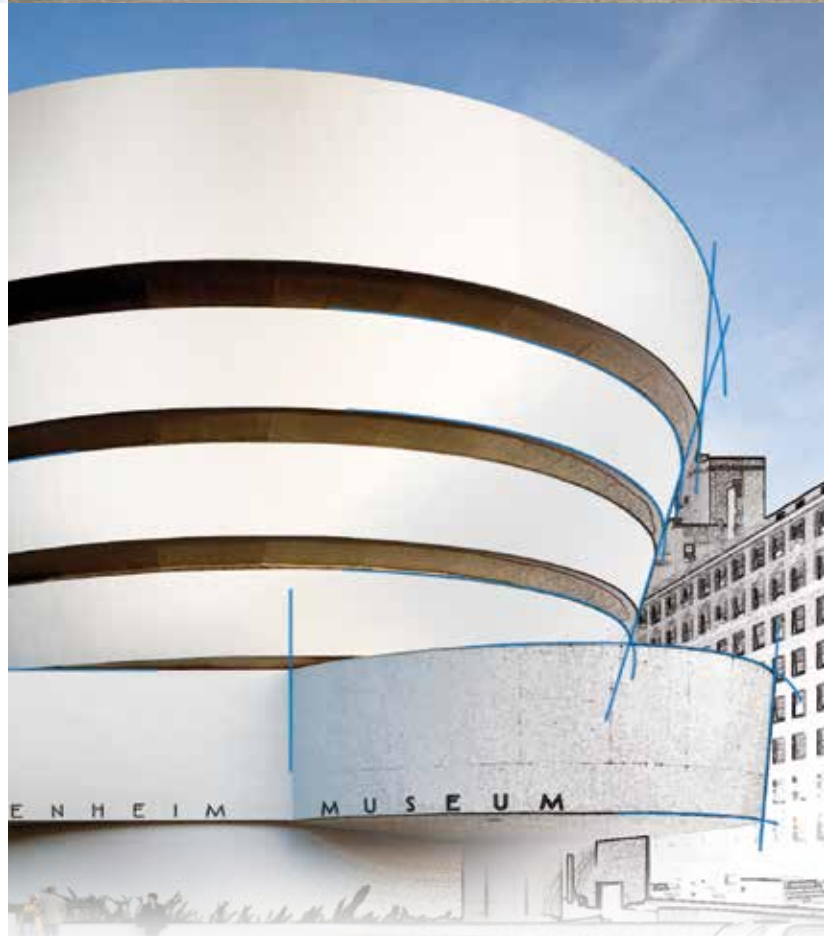
Resistant to wind-driven rain and moisture-vapor-permeable

DESCRIPTION

Elastocolor Coat is a water-based, high-build, 100%-acrylic coating designed to protect and decorate above-grade, exterior/interior vertical concrete, masonry, stucco, fiber-reinforced polymer (FRP) composites and EIFS systems. *Elastocolor Coat* is available in two textures (smooth and fine), in a wide range of standard colors and in an unlimited number of custom colors to increase its design versatility.

FEATURES AND BENEFITS

- Effective carbon dioxide diffusion and chloride barrier to protect embedded steel bars from corrosion
- Excellent adhesion to all approved substrates to bond for long-term durability
- Excellent color retention, hiding power and resistance to UV light
- Resists wind-driven rain and helps to prevent water penetration into substrates
- VOC-compliant
- Water-vapor permeable
- Algae-resistant
- BioBlock[®] technology for mold and mildew resistance
- Freeze/thaw-stable and suitable for cold climates
- Can be applied by roller, brush or sprayer



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INDUSTRY STANDARDS AND APPROVALS

LEED v3 Points Contribution	LEED Points
MR Credit 5, Regional Materials*	Up to 2 points
IEQ Credit 4.2, Low-Emitting Materials – Paints & Coatings	1 point (color-dependent**)

* Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

** Contact MAPEI's Technical Service Department for details.

WHERE TO USE

- Concrete, brick, masonry, stucco, FRP composites and EIFS systems
- Above-grade exterior and interior surfaces
- Civil engineering structures subject to dynamic cracking
- For enhancing aesthetics, waterproofing and general protection
- Over new and existing coatings

LIMITATIONS

- Do not apply *Elastocolor Coat* when ambient or substrate temperatures are below 40°F (4°C) or expected to fall below 40°F (4°C) within 24 hours, or when these temperatures are higher than 95°F (35°C).
- Do not apply *Elastocolor Coat* if the relative humidity is higher than 90%.
- Do not apply *Elastocolor Coat* on horizontal traffic-bearing surfaces.
- Do not apply *Elastocolor Coat* during inclement weather or when rain is expected within 24 hours following application.
- Do not use *Elastocolor Coat* where hydrostatic pressure from the underside of the substrate may be present.
- Protect *Elastocolor Coat* from freezing and discard it if it freezes.
- Do not use *Elastocolor Coat* in total immersion or when it is subject to migrating moisture or rising dampness.
- Substrates must be dry before application of *Elastocolor Coat*. Allow substrates sufficient time to dry after rain; at least 24 hours of drying time is recommended.

Consult MAPEI's Technical Services Department for installation recommendations regarding any substrates and conditions not listed.

SUITABLE SUBSTRATES

- Clean, sound, stable, frost-free and fully cured concrete, masonry, stucco and FRP composite substrates, as well as brick-mortar and EIFS systems

SURFACE PREPARATION

- Substrates should be clean and free of dirt, residue, oils, grease, curing compounds, laitance and any contaminant that may interfere with the adhesion of *Elastocolor Coat*.
- Use proper surface-preparation methods to achieve a texture of medium 100-grit sandpaper, or an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of #1 to #3.
- Chemical removal may be required on some stains and contaminants. Be sure to neutralize these removal compounds and rinse the treated surface thoroughly with clean water.
- Before application of *Elastocolor Coat*, repair holes, spalls and damaged concrete with appropriate MAPEI concrete repair products. Remove any protruding concrete areas and smooth out any irregularities. Detail cracks with the appropriate surface fillers.
- Apply *Elastocolor Primer WB* as required (for example, on new or porous substrates and in hot, windy conditions).

MIXING

Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for details.

- Appropriately mix *Elastocolor Coat* to ensure color uniformity and minimize air entrapment.
- *Elastocolor Coat* is ready to use. No dilution is required.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation. Contact MAPEI's Technical Services Department for more detailed recommendations.

1. Air, material and substrate temperatures during application must be between 40°F and 95°F (4°C and 35°C).
2. Apply *Elastocolor Coat* by brush, roller or sprayer onto a dried coat of *Elastocolor Primer WB* (if a primer is required). Otherwise, apply *Elastocolor Coat* directly to the substrate.
3. Apply to achieve a wet film thickness (WFT) of 12 to 23 mils for the smooth version, and a WFT of 15 to 27 mils for the fine version (per coat).
4. Ensure that the application is always worked to a natural break and that a wet edge is maintained throughout the application.
- 5a. Brush application: Apply with this method only in small areas.
- 5b. Roller application: Use a 3/4" to 1-1/4" (19-mm to 3,2-cm) nap roller cover and roll in a fan pattern, always keeping the roller wet. Then, cross-roll to achieve uniform consistency. It is important that all final rolling be done in the same direction to prevent shadowing in the final finish.

Product Performance Properties

Laboratory Tests	Results
Density Smooth texture Fine texture	11.2 lbs. per U.S. gal. (1,34 g per cm ³) 11.5 lbs. per U.S. gal. (1,38 g per cm ³)
Appearance – ASTM D523	Flat < 5 @ 60
Solids, by weight Smooth texture Fine texture	60% 64%
Solids, by volume Smooth texture Fine texture	46.4% 50.3%
Carbon dioxide diffusion – EN 1062-6, Method A CO ₂ resistance coefficient R (equivalent air layer thickness) Sc (equivalent concrete thickness)	744,741 660 ft. (201 m) 19.7 in. (50 cm)
Water-vapor permeance – ASTM E96	17.1 perms
Weathering – ASTM D6695 (Xenon Arc: 10,000 hours)	Passed
Salt spray (fog) resistance – ASTM B117	Passed
Resistance to wind-driven rain – ASTM D6904	Passed (0.1 lb. [45 g] of weight gain)
Abrasion resistance – ASTM D968 (at 3,000 L)	Passed
Fungal resistance – ASTM D3273	No growth
Elongation (at break) at 73°F (23°C) and 50% relative humidity – ASTM D638	650%
Tensile strength – ASTM D638	130 psi (0,90 MPa)
Mandrel bend test – ASTM D522	Passed (no cracking)

Shelf Life and Product Characteristics

Shelf life	2 years in original, unopened container in a dry, covered location at 73°F (23°C) and 50% relative humidity
Consistency	Thick liquid
Color	3 bases (pastel, medium and transparent) and 25 standard colors available – or a broad range of colors using the ColorMap™ automatic coloring system
VOCs (Rule #1168 of California's SCAQMD)	≤ 50 g per L for white and other colors from pastel base; ≤ 100 g per L (color-dependent) for colors from medium and transparent bases

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

Application Properties

Drying time at 73°F (23°C) and 50% relative humidity To touch To recoat or topcoat To full cure	3 to 5 hours 12 to 24 hours 7 days
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CSI Division Classification

Painting and Coating	09 90 00
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Elastocolor[®] Coat



Packaging

Size (plastic bucket with tint included)	
<u>Smooth texture</u> Pastel base, 5 U.S. gals. (18,9 L) Medium base, 5 U.S. gals. (18,9 L) Transparent base, 5 U.S. gals. (18,9 L)	<u>Fine texture</u> Pastel base, 5 U.S. gals. (18,9 L) Medium base, 5 U.S. gals. (18,9 L) Transparent base, 5 U.S. gals. (18,9 L)

Approximate Coverage*

Smooth texture, per coat

Thickness (wet film and dry film)	Coverage
12 mils WFT or 5 mils DFT	140 sq. ft. per U.S. gal. (3,44 m ² per L)
18 mils WFT or 8 mils DFT	90 sq. ft. per U.S. gal. (2,20 m ² per L)
23 mils WFT or 11 mils DFT	70 sq. ft. per U.S. gal. (1,71 m ² per L)

Fine texture, per coat

Thickness (wet film and dry film)	Coverage
15 mils WFT or 7 mils DFT	110 sq. ft. per U.S. gal. (2,69 m ² per L)
20 mils WFT or 10 mils DFT	80 sq. ft. per U.S. gal. (1,96 m ² per L)
27 mils WFT or 14 mils DFT	60 sq. ft. per U.S. gal. (1,47 m ² per L)

* Coverage varies depending on the surface porosity and texture of the surface as well as on job requirements.

- 5c. Spray application: *Elastocolor Coat* Smooth can be applied by airless sprayer. For *Elastocolor Coat* Fine, a spray application requires a heavy-duty sprayer designed for the application of coatings that contain sand particles. Spray in a cross-coat technique (with horizontal and vertical passes). When the spray application is done, if necessary for a uniform texture across the surface, back-roll over the entire area in one direction. Then, wait until the first coat has dried, for about 12 to 24 hours, and spray a second coat.

Refer to the SDS for specific data related to health and safety as well as product handling.

STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith.

ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.

CLEANUP

- Clean tools and equipment immediately after use with water. Dried material may require mechanical means for removal.

We proudly support the following industry organizations:



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