

Elastocolor Coat

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



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 reinforcing steel 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

INDUSTRY STANDARDS AND APPROVALS

- SWR Institute validated product
- Master Painters Institute (MPI) #10

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 (RH) 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 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. Hairline cracks up to 1/16" (1.5 mm) can be filled with *Mapeflex*® EMC-1 smooth, brush-grade, elastomeric patching compound.

- Apply *Elastocolor Primer AR* or *Elastocolor Primer WB* as required (for example, on new or porous substrates and in hot, windy conditions).

MIXING

Before product use, take appropriate safety precautions. 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 the prepared substrate.
3. Apply *Elastocolor Coat* Smooth to achieve a wet film thickness (WFT) of 12 to 23 mils, and a WFT of 15 to 27 mils for *Elastocolor Coat* Fine (per coat).
4. Ensure that the application is always worked to a natural break and that a wet edge is maintained throughout the application.
5. Brush application: Apply with this method only in small areas.

Roller application: Use a 3/4" to 1-1/4" (19-mm to 3.2-cm) nap roller cover depending on surface texture and desired film build. Maintain a uniform WFT during application, finishing the coated area by lightly rolling the surface in one direction. Always work to a natural break and maintain a wet edge.

Spray application: *Elastocolor Coat* Smooth can be applied by airless spray using a 0.0019 to 0.0021 tip. *Elastocolor Coat* Fine should only be spray-applied using the appropriate texture spray equipment. Spray-apply using a cross-hatch technique to the desired WFT. Back-rolling with a 3/4" to 1-1/4" (19-mm to 3.2-cm) nap roller cover is recommended as necessary to ensure uniform coverage and texture.

CLEANUP

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

Product Performance Properties

Laboratory Tests	Results
Appearance – ASTM D523	Flat < 5 @ 60
Density	
Smooth texture	11.2 lbs. per U.S. gal. (1.34 g per cm ³)
Fine texture	11.5 lbs. per U.S. gal. (1.38 g per cm ³)
Solids, by weight	
Smooth texture	60%
Fine texture	64%
Solids, by volume – ASTM D2697	
Smooth texture	44.9%
Fine texture	50.3%
Carbon dioxide diffusion – EN 1062-6, Method A	
CO ₂ resistance coefficient	744,741
R (equivalent air layer thickness)	660 ft. (201 m)
Sc (equivalent concrete thickness)	19.7 in. (50 cm)
Water vapor transmission – ASTM D1653	9.4 grains/h.ft ² (22.7 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 (0.02 lb. [9.1 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% RH	
ASTM D638	650%
ASTM D412	242%
Tensile strength	
ASTM D638	130 psi (0.90 MPa)
ASTM D412	388 psi (2.68 MPa)
Mandrel bend test – ASTM D522	Passed (no cracking)
Crack bridging – EN 1062-7 Method A	Class A5 up to 2500µ at 0.5 mm/min

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% RH
Consistency	Thick liquid
Color	3 tint bases (pastel, medium and transparent) and 25 standard colors available – or an unlimited color tint selection using the ColorMap™ automatic coloring system
VOC content (SCAQMD Rule 1113)	< 50 g per L
Typical VOC content per SCAQMD Rule 1113 testing methods	37 g per L

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% RH	
Dry to the touch	3 to 5 hours
Before recoating or applying topcoat	12 to 24 hours
Until full cure	7 days

CSI Division Classifications

Painting and Coatings	09 90 00
Concrete and Masonry Coatings	09 97 23

Packaging

Size (plastic bucket with tint included)	
Smooth texture	
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)	
Fine texture	

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 dry film thickness (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.


**SEALANT• WATERPROOFING
& RESTORATION INSTITUTE**

Issued to: Mapei Corporation
Product: Elastocolor Coat

ASTM D 6904: Resistance to Wind Driven Rain
Weight Gain: 0.02 oz. Water Leaks: None Pass ☒

ASTM D 412: Tensile Properties
Tensile Strength: 388 psi Elongation: 242% Pass ☒

EN 1062-7: Cracking Bridging Ability
Results: No cracking Pass ☒

ASTM D 2697: Solids Content by Volume
Results: 44.9% Density: 11.2 lbs/gal. Pass ☒

ASTM D 1653: Moisture Vapor Transmission
WVT(grains/h.ft²): 9.4 Perms: 22.68 Pass ☒

Validation Date: 03/23/24 – 03/22/29
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WALL COATINGS VALIDATION
www.swrionline.org

ADDITIONAL INFORMATION

Refer to the Safety Data Sheet (SDS) for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **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.**

CONTACT INFORMATION

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Flooring: 1-800-992-6273

Concrete and heavy construction: 1-888-365-0614

Canada:

1-800-361-9309

Customer Service

1-800-42-MAPEI (1-800-426-2734)

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For the most current product data and BEST-BACKEDSM warranty information,
visit www.mapei.com.
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