



Elastocolor[®] Flex

**Water-Based, 100%-Acrylic,
Elastomeric Waterproof
Coating**

High elongation and recovery

Enhanced aesthetics, waterproofing and protection

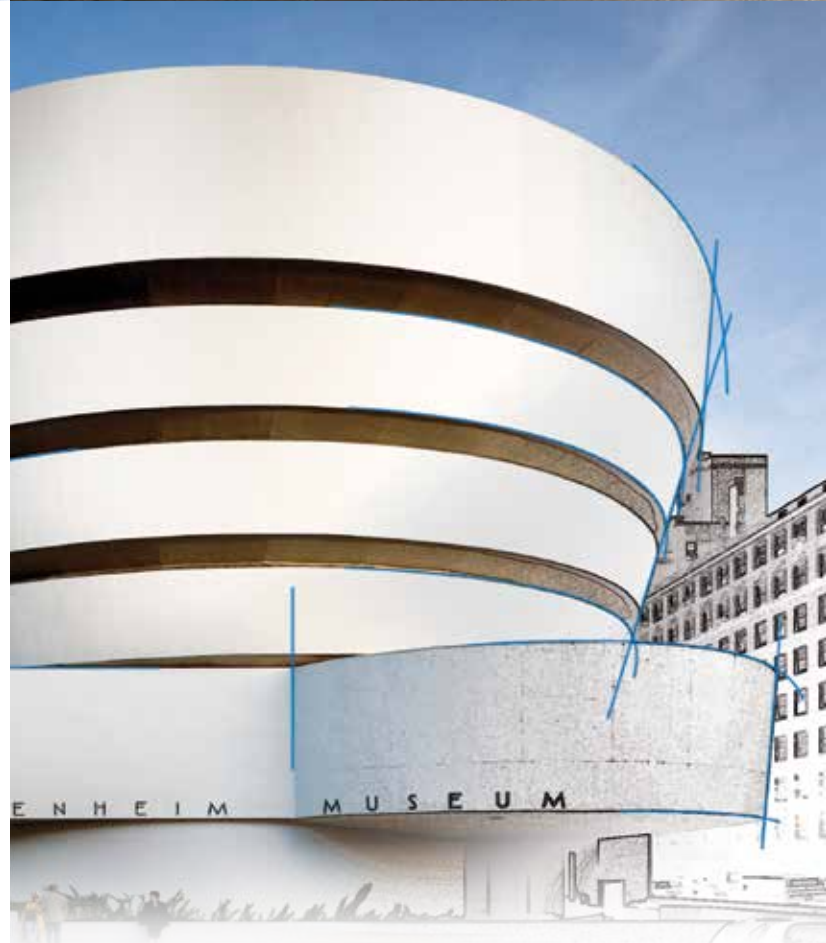


DESCRIPTION

Elastocolor Flex is an elastomeric, high-build, water-based, 100%-acrylic coating to protect and decorate above-grade, vertical exterior concrete, masonry, stucco and EIFS systems. *Elastocolor Flex* 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

- High elongation and recovery for durable performance over dynamic cracks
- Flexible at low temperatures for suitability in most climates
- 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



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INDUSTRY STANDARDS AND APPROVALS

- SWR Institute validated product

WHERE TO USE

- Concrete, brick, masonry, stucco and EIFS systems
- Above-grade vertical exterior 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 Flex* 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 Flex* if the relative humidity (RH) is higher than 90%.
- Do not apply *Elastocolor Flex* on horizontal traffic-bearing surfaces.
- Do not apply *Elastocolor Flex* when inclement weather is expected or when rain is expected within 24 hours following application.
- Do not use *Elastocolor Flex* where hydrostatic pressure from the underside of the substrate may be present.
- Protect *Elastocolor Flex* from freezing and discard it if it freezes.
- Do not use *Elastocolor Flex* in total immersion or when subject to migrating moisture or rising dampness.
- Substrates must be dry before application of *Elastocolor Flex*. Allow substrates sufficient time to dry after rain; if it rains, 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 and stucco 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 Flex*.
- 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 Flex*, 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

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

- Appropriately mix *Elastocolor Flex* to ensure color uniformity and minimize air entrapment.
- *Elastocolor Flex* 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 Flex* by brush, roller or sprayer onto a dried coat of *Elastocolor Primer WB* (if a primer is required). Otherwise, apply *Elastocolor Flex* 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 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.
- 5c. Spray application: *Elastocolor Flex* Smooth can be applied by airless spray using a 0.0019 to 0.0021 tip. *Elastocolor Flex* 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 Fine texture	11.0 lbs. per U.S. gal. (1.32 g per cm ³) 11.4 lbs. per U.S. gal. (1.37 g per cm ³)
Solids, by weight Smooth texture Fine texture	58.5% 62.5%
Solids, by volume – ASTM D2697 Smooth texture Fine texture	48.0% 48.6%
Carbon dioxide diffusion – EN 1062-6, Method A CO ₂ resistance coefficient R (equivalent air layer thickness) Sc (equivalent concrete thickness)	445,109 394 ft. (120 m) 11.8 in. (30 cm)
Water vapor transmission – ASTM D1653	10.8 grains/h.ft ² (26.2 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 lb. [0 g] of weight gain)
Fungal resistance – ASTM D3273	No growth
Elongation (at break) at 73°F (23°C) and 50% RH ASTM D638 ASTM D412	825% 529%
Tensile strength ASTM D638 ASTM D412	65 psi (0.45 MPa) 113 psi (0.78 MPa)
Mandrel bend test – ASTM D522	Passed (no cracking)
Crack bridging – EN 1062-7 At 73°F (23°C) At 32°F (0°C) At -15°F (-26°C)	30 mils 73 mils 32 mils

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 bases (pastel, medium and transparent) and 25 standard colors available – or a broad range of colors using the ColorMap™ automatic coloring system
VOCs (Rule #1113 of California's SCAQMD)	≤ 50 g per L for white and colors tinted with low/zero-VOC colorant

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 70°F (21°C) and 50% relative humidity Dry to the touch Before recoating or applying topcoat Until full cure	6 hours 12 to 24 hours 7 days
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CSI Division Classifications

Painting and Coatings	09 90 00
Elastomeric Coatings	09 96 53

Elastocolor[®]
Flex

SEALANT, WATERPROOFING & RESTORATION INSTITUTE

Issued to: **MAPEI**
Product: **Elastocolor Flex - Smooth**

ASTM D 6904: Resistance to Wind Driven Rain
Weight Gain: 0.0 oz. Water Leaks: None Pass ✓

ASTM D 412: Tensile Properties
Tensile Strength: 113 psi Elongation: 529% Pass ✓

EN 1062-7: Crack Bridging Ability
Results: No cracking Pass ✓

ASTM D 2697: Solids Content by Volume
Results: 48% Density: 11 lbs/gal. Pass ✓

ASTM D 1653: Moisture Vapor Transmission
WVT(grains/h.ft²): 10.8 Perms: 26.2 Pass ✓

Validation Date: 01/22/19 - 01/21/24
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WALL COATINGS VALIDATION
www.swrionline.org



Elastocolor[®] Flex



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.

Refer to the 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 meets the health and well-being requirements of product certification programs, contact the MAPEI Sustainability Team at 1-800-992-6273.

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 or 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.**

We proudly support the following industry organizations:



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1-800-361-9309 (Canada)

Customer Service

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

Services in Mexico

0-1-800-MX-MAPEI (0-1-800-696-2734)

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

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