

Elastocolor Coat DOT-MOT

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



DESCRIPTION

Elastocolor® Coat DOT-MOT is specially formulated to meet the surface coating needs of the bridge and highway construction market, for coating new and previously painted concrete structures. It exhibits superior application qualities and long-term performance on exposure to the environment.

FEATURES AND BENEFITS

- High-build application for faster production
- Can be applied directly to prepared concrete surfaces
- Vapor-permeable to allow the passage of water vapor into and out of the substrate
- High bond strength on concrete

INDUSTRY STANDARDS AND APPROVALS

- Formulated to meet or exceed standard specifications for U.S. state and Canadian province transportation agencies

WHERE TO USE

- New and previously coated concrete, brick, masonry, stucco, CMU and cement board
- Above-grade exterior surfaces

- For enhancing aesthetics and general protection on surfaces
- For use with new or previously coated substrates

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, concrete masonry units (CMUs), stucco, brick, mortar, and previously painted surfaces and acrylic textured finishes

SURFACE PREPARATION

- Substrates should be clean and free of dirt, residue, oil, grease, curing compounds, laitance and any contaminant that may interfere with adhesion and should be prepared using engineer-approved methods.
- Previously coated substrates must be vigorously prepared to ensure that any failing or loosely adhered coatings or sealers are removed.
- Remove unsound masonry by wire brushing or mechanically chipping away material to provide a firm surface.
- A minimum concrete surface profile (CSP) of #2 is recommended for cementitious substrates.
- New stucco or mortar should be allowed to cure for 14 days before application. Allow 28 days of curing for poured-in-place concrete. An internal moisture content of < 5% is recommended.
- A mockup with a subsequent 7-day adhesion test is recommended to determine whether adequate surface preparation has been performed.

MIXING

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

- Slowly stir *Elastocolor Coat DOT-MOT* to ensure uniformity and minimize air entrapment.
- *Elastocolor Coat DOT-MOT* is ready to use. Do not dilute.

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 DOT-MOT* by brush, roller or spray directly onto the prepared substrate. For airless spray, use a 0.019 to 0.021 tip. Back-rolling is recommended to ensure uniform coverage and full contact with the substrate.
3. Consult the relevant DOT-MOT coating specification for required application rates.
4. Ensure that the application is always worked to a natural break and that a wet edge is maintained throughout the application.

CLEANUP

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

LIMITATIONS

- *Elastocolor Coat DOT-MOT* is restricted from sale in California, Colorado, Connecticut, Delaware, Maryland, New York, Rhode Island and Utah.
- Do not apply *Elastocolor Coat DOT-MOT* 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 DOT-MOT* if the relative humidity (RH) is higher than 90%.
- Do not apply *Elastocolor Coat DOT-MOT* on horizontal traffic-bearing surfaces.
- Do not use *Elastocolor Coat DOT-MOT* where hydrostatic pressure from the back or underside of the substrate may be present.
- Protect *Elastocolor Coat DOT-MOT* from freezing and discard the product if it freezes.
- Do not use *Elastocolor Coat DOT-MOT* in total immersion or when it is subject to migrating moisture or rising dampness.
- Substrates must be dry before application of *Elastocolor Coat DOT-MOT*. Allow substrates sufficient time to dry after rain; at least 24 hours of drying time is recommended.

Product Performance Properties

Appearance – ASTM D523	Flat < 5 @ 60
Solids, by weight	60.8% ± 1.0
Solids, by volume – ASTM D2697	40.7% ± 1.0
Water vapor transmission – ASTM D1653	16.3 perms @ 13 mils in dry film thickness (DFT)
Contrast ratio	99.7% @ 12.5 mils DFT
UV condensation exposure – ASTM D4587 (2,000 hours)	Passed
Salt fog resistance – ASTM B117 (2,000 hours)	Passed
Resistance to wind-driven rain – ASTM D6904	Passed (0.01 lb. [4.5 g] of weight gain)
Abrasion resistance – ASTM D968 (at 3 000 L)	Passed; no coating loss
Fungal resistance – ASTM D3273 (4 weeks)	Passed; no fungal growth
Elongation – ASTM D2370	363.7%
Tensile strength – ASTM D2370	142 psi (0.98 MPa)
Mandrel bend test – ASTM D522 B	Passed 1/8" (3 mm)
Adhesion to concrete – ASTM D7234	
At 7 days	416 psi (2.87 N/mm ²)
At 28 days	493 psi (3.4 N/mm ²)
Impact – ASTM 2794	90 in/lbs (1.04 kg-m)

Shelf Life and Product Characteristics

Shelf life	2 years in original, unopened container
Consistency	Heavy, viscous liquid
Color	White in 2 tint bases (pastel and medium)
Weight	12.00 lbs. per U.S. gal. (1.44 g per cm ³)
VOC content (SCAQMD Rule 1113)	< 50 g per L
Typical VOC content per SCAQMD Rule 1113 testing methods	66 g per L*

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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	2 hours
Before recoating or applying topcoat	4 hours
Until full cure	24 hours

CSI Division Classification

Painting and Coatings	09 90 00

Packaging

Size
Pail: 5 U.S. gals. (18.9 L)
Drum: 55 U.S. gals. (208 L)

Approximate Coverage**

Thickness (wet film and dry film)	Coverage
16 mils WFT or 6.5 mils DFT	100 sq. ft. per U.S. gal. (2.45 m ² per L)

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

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).

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