

Elastocolor Primer AR

Water-Based, Alkali-Resistant Primer for
Elastocolor® Coatings



DESCRIPTION

Elastocolor Primer AR is a specially designed primer for use on exterior, above-grade, new and previously coated concrete and masonry surfaces. *Elastocolor Primer AR* will protect subsequent coatings from the damaging effects of high pH present in freshly placed cement-based products. It remains highly flexible, offers excellent filling and adhesion on prepared substrates, and is designed for compatibility with MAPEI's *Elastocolor* coating systems.

FEATURES AND BENEFITS

- Protects the topcoat against damaging effects of high pH levels in the substrate
- Suitable for use on all cementitious substrates including stucco, concrete, concrete masonry units (CMUs) and a variety of other building materials
- Vapor-permeable to allow the passage of water vapor into and out of the substrate
- Provides a uniformly sealed surface over materials of varying porosity

WHERE TO USE

- Concrete, brick, masonry, stucco, CMUs and cement board
- As a block filler on porous CMUs
- Above-grade exterior and interior surfaces

- For enhancing aesthetics and general protection on surfaces up to pH 13
- For use on new and 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, CMUs, stucco, brick-mortar and acrylic textured finishes

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 Primer AR*, and should be prepared using engineer-approved methods.
- Remove unsound masonry by wire brushing or mechanically chipping away material to provide a firm surface.
- New stucco or mortar should be allowed to cure for 3 days before application of *Elastocolor Primer AR*. For poured-in-place concrete, allow 7 days of curing before application.
- On previously painted surfaces exhibiting excessive chalking, use *Elastocolor Primer WB*.

MIXING

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

- Slowly stir *Elastocolor Primer AR* to ensure uniformity and minimize air entrapment.
- *Elastocolor Primer AR* is ready to use. Do not dilute.

PRODUCT APPLICATION

Read all installation instructions thoroughly before proceeding. 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 Primer AR* by brush, roller or spray directly to the prepared substrate. For airless spray, use a 0.0019" to 0.0021" tip, and then back-roll to ensure uniform coverage and full contact with the substrate.
3. As a block filler, apply *Elastocolor Primer AR* to achieve a wet film thickness (WFT) of 15 mils, or 100 sq. ft. per U.S. gal. (2,45 m² per L). Typical applications will only require a WFT of 5 mils, or 300 sq. ft. per U.S. gal. (7,35 m² per L).
4. Ensure that the application is always worked to a natural break and that a wet edge is maintained throughout the application.

CLEANUP

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

LIMITATIONS

- Do not apply *Elastocolor Primer AR* 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 Primer AR* if the relative humidity (RH) is higher than 90%.
- Do not apply *Elastocolor Primer AR* on horizontal traffic-bearing surfaces.
- Do not use *Elastocolor Primer AR* where hydrostatic pressure from the back or underside of the substrate may be present.
- Protect *Elastocolor Primer AR* from freezing and discard it if it freezes.
- Do not use *Elastocolor Primer AR* in total immersion or when it is subject to migrating moisture or rising dampness.
- Substrates must be dry before application of *Elastocolor Primer AR*. Allow substrates sufficient time to dry after rain; at least 24 hours of drying time is recommended.

Product Performance Properties

Laboratory Tests	Results
Appearance – ASTM D523	Flat < 5 @ 60
Weight per volume	10.9 ± 0.5 lbs. per U.S. gal. (1,31 g per cm ³)
Solids, by weight	57.4 ± 1.0%
Solids, by volume	44.1 ± 1.0%
Water-vapor permeance – ASTM D1653	20.1
Adhesion to concrete – ASTM D7234	452.3 psi (3,22 N/mm ²)
Mandrel bend test – ASTM D522, 70°F (21°C)	Passed (no cracking)

Shelf Life and Product Characteristics

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C)
Consistency	Heavy, viscous liquid
Color	White. Tintable with up to 2% by volume of a MAPEI-approved colorant.
VOCs (Rule #1113 of California's SCAQMD)	< 100 g per L for white and when tinted with low- or zero-VOC colorants

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 Classifications

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

Packaging

Size
Pail: 5 U.S. gals. (18,9 L)

Approximate Coverage*

Thickness (wet film and dry film)	Coverage
5 mils WFT or 2.2 mils dry film thickness (DFT)	300 sq. ft. per U.S. gal. (7,35 m ² per L)
15 mils WFT or 6.6 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 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).

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

MAPEI Headquarters of North America

1144 East Newport Center Drive
Deerfield Beach, Florida 33442
1-888-US-MAPEI (1-888-876-2734) / (954) 246-8888

Technical Services

U.S. and Puerto Rico:

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)

Edition Date: February 12, 2024 MK 3000103 (23-2064)

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