

Mapecoat Guard 155

Multipurpose, Two-Component, High-Performance, Anti-Corrosion, Epoxy Primer

WHERE TO USE

Mapecoat™ Guard 155 is an easy-to-apply anti-corrosion primer for metal substrates suitable for both new and maintenance projects.

TECHNICAL CHARACTERISTICS

- Excellent anti-corrosion protection
- Easy to mix and apply

LIMITATIONS/RECOMMENDATIONS

- When exposed to direct sunlight, epoxy products such as **Mapecoat Guard 155** can change color, exhibit surface dulling and show evidence of chalking.
- Apply only over clean surfaces free of dirt, soil, oil and grease.
- Do not expose the mixed product to sources of heat.

SUBSTRATE PREPARATION

Steel substrates in open-air use

Prepare the substrate manually or mechanically according to the ISO 8501-1 ST3 (SSPC-SP 2-3-11) standard until oxide is completely removed. For the best results, prepare the substrate according to the SSPC-SP6/ISO 8501-1 SA2 standard or higher, with a profile of 40 to 65 µm (Medium G for ISO 8503-2).

Steel substrates immersed in water

Prepare the substrate minimally according to the ISO 8501-1 SA 2.5 (SSPC-SP 10) standard with a profile of 40 to 75 µm (Medium G for ISO 8503-2 SSPC-SP2 or SP3 (ISO St 2 o St 3), or SSPC-SP11.

Stainless-steel substrates

The surface should have a roughness between 25 and 75 µm achieved through abrasive blasting in accordance with SSPC-SP16. Remove all contaminants that could interfere with the performance of the stainless steel for the intended service, such as, but not limited to, embedded iron and chlorides.

Aluminum substrates

Clean with suitable solvents according to SSPC-SP1 for removal of any contaminants such as oil, grease, dirt, dust etc. Use a suitable nonabrasive metal for surface preparation according to SSPC-SP16.

Cementitious substrates

Remove all unsound material, oils, grease and other noncompatible substances including sealants and other treatments. Follow guidance found in the cementitious substrates' Technical Data Sheet regarding curing, drying time and any other special guidance regarding application of a product like **Mapecoat Guard 155** over the substrate.

MIXING

Begin by mixing Component A. Slowly add Component B and mix with an electric mixer at a low speed (300 to 400 rpm) to avoid trapping air in the mixture.

Next dilute the mixture with either **Diluyente M2** or **Diluyente M33**. If the product is applied in open air or by spray and at temperatures below 68°F (20°C), dilute up to 8% by volume with **Diluyente M2**. For roller/brush and spray applications in windy and/or higher temperatures above 68°F (20°C), dilute up to 8% by volume with **Diluyente M33**.

Using different diluents, or thinners, other than those specified or approved by MAPEI can affect the final product performance and invalidate MAPEI's warranty. Apply only when the surface temperature is at least 5°F (3°C) above the dew point.

PRODUCT APPLICATION

Mapecoat Guard 155 can be applied by conventional spray, airless spray, brush or roller.

Conventional spray

Use a pump with a tank equipped with a double regulator. Feed hose: 3/8" I.D. at minimum. Nozzle: 0.070" I.D. with appropriate head.

Airless spray

Compression rate: 30 to 1. Minimum flow rate: 9.5 L/min. Tube material: 3/8" I.D. at minimum. Nozzle: 0.017-0.021". Outlet pressure: 2,100 to 2,300 psi. Filter size: 60 mesh. Teflon seals are recommended and are available from the pump manufacturer.

Brush or roller

Brush and roller applications are the most suitable methods for damp surfaces. Multiple layers may be needed to achieve the specified thickness and adequate coverage. For the best results, apply the second coat after the first coat is completely dry (which may vary depending on the temperature; see the Product Performance Properties table). Avoid passing over the surface excessively. Use a short-pile, synthetic mohair roller with a phenolic core.

CLEANUP

Use paint thinner to clean tools used to mix, prepare and apply **Mapecoat Guard 155** immediately after tool use. Once hardened, the product can only be removed mechanically.

COVERAGE / CONSUMPTION*

- 250.7 sq. ft. / U.S. gal. at 4 mils of dry film thickness (6.06 m²/L at 100 µm of DFT)

* Waste must be taken into consideration when mixing and applying the product.

PACKAGING

Mapecoat Guard 155 is available in cans measuring 2.64 U.S. gals. (10 L). Component A is 2.11 U.S. gals. (8 L) and Component B is 0.53 U.S. gal. (2 L).

STORAGE

Mapecoat Guard 155 product must be stored in its original, unopened packaging in a dry area at between 41°F and 86°F (5°C and 30°C). Shelf life is 2 years at 73°F (23°C).

Product Performance Properties

Test Method	Test Results
Color	Gray
Consistency	Liquid
Density of mixture	1.62 g/cm ³
Dry-solids content	65%

Application Properties

at 73°F (23°C) and 50% relative humidity

Mixing ratio by weight (Component A : B)	84.5 : 15.5
Mixing ratio by volume (Component A : B)	4 : 1
Application temperatures	• product: min 44.6°F(+7°C) / max 89.6°F (+32°C) • ambient: min 32°F (0°C) / max 89.6°F (+35°C) • surface: min 32°F (0°C)/ max 120.2°F (+49°C) • humidity: min 0% / max 95%

Drying Time**

Ambient temperature	Diluent (thinner) (8% by mass)	Time until dust-dry	Time until recoating
32°F (0°C)	<i>Diluyente M2</i>	400 minutes	8 hours
50°F (10°C)	<i>Diluyente M2</i>	120 minutes	5 hours
59°F (15°C)	<i>Diluyente M2</i>	90 minutes	4 hours
73.4°F (23°C)	<i>Diluyente M33</i>	60 minutes	2.5 hours
95°F (35°C)	<i>Diluyente M33</i>	25 minutes	1.5 hours

** Values reference above represent a 100 µm DFT application at 50% relative humidity and at the temperature referenced. Actual results may vary accordingly due to such conditions as product and surface temperatures, and ventilation in the area of the application.

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.**

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