

# TITAN® PRIMER MCU

## 100% SOLID EPOXY SYSTEM

**Description** Titan® Primer MCU is a two-part, 100% solid, epoxy designed to be used as a primer coat with Titan MCU®, product line.

**Typical Applications**

- Concrete reinforcement
- Steel reinforcement
- Wood piling reinforcement

**Benefits**

- Long pot life
- Long open time
- Easy to mix
- Tolerant of moisture before, during and after cure
- High strength, high modulus adhesive
- Excellent adhesion to concrete, masonry metals, wood and most structural materials
- Thixotropic properties are ideal for overhead applications
- High temperature resistance
- Solvent-free, VOC compliant

**Coverage** 140 ft<sup>2</sup>/gal

**Thickness** Primer: 5-10 mils

**Mixing & Mix Ratio** Power mix Part A, then combine with Part B and power mix. Do not mix partial kits. Resin to hardener 1.6:1 by volume.

**Pot Life** 90 minutes @ 75°F (24°C), less at higher temperatures

**Limitations**

- Application temperature shall be a minimum of 40°F (10°C) and maximum of 180°F (83°C)
- Service temperature -40° to 180°F (-40 to 83°C)

**Related Products** The following products are compatible with Titan-Primer MCU:

- Titan-MCU product line
- Titan-Top Coat (if required)

| Properties | Property                    | Typical Test Value |
|------------|-----------------------------|--------------------|
|            | Mix Ratio                   | 1.6:1              |
|            | Tensile Strength            | 6,057psi           |
|            | Tensile Modulus             | 328,822            |
|            | Elongation (%)              | 2.6%               |
|            | Glass Transition Temp (Tg ) | 140°F (60°C)       |

**Design** The Titan-MCU system was designed to conform to ACI 400.8-13, AC125, and ICC-ES. Consult NRI Engineering for specified use.

**Surface Preparation** Surface preparation shall be in accordance with ACI 546R, ICRI No. 310.1R-2008 and ACI 562-13 detail methods for the repair and surface preparation of concrete. Localized out-of-plane variations, including form lines, should not exceed 1/32" (1 mm). Substrate must be clean, sound, and free of surface moisture. Remove dust, laitance, grease, oils, curing compounds, waxes, impregnations, foreign particles, coatings and disintegrated materials by mechanical means ( i.e. sandblasting). For best results, substrate should be dry. However, a saturated surface dry condition is acceptable.



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**Cleanup and Safety** For proper information regarding the safe handling, storage, and disposal of chemical products, users shall refer to the most recent SDS, latest revision, containing physical, ecological, toxicological, and other safety-related data.

**Shelf Life** 12 months

**Storage Conditions** Store in original, unopened containers, indoors at a max temp of 95°F (35°C).

**Packaging**

- Supplied in kits ranging from pints to gallons for the following coverages: 20ft<sup>2</sup> (1.8m<sup>2</sup>), 40ft<sup>2</sup> (3.7m<sup>2</sup>), 80ft<sup>2</sup> (7.4m<sup>2</sup>), 160ft<sup>2</sup> (14.8m<sup>2</sup>)
- Typically ships in 17" x 15" x 14" boxes (43cm x 38cm x 36cm)

**Warranty** ©Neptune Research Inc. (NRI) NRI® is a registered trademark, while Titan®-MCU and Titan®-Primer MCU epoxy are registered trademarks of NRI. NRI utilizes a process of continuous product improvement for all of our products. While we do strictly adhere to our products' specifications, we routinely implement product improvements. Therefore, please contact your local NRI distributor or office for the most current product specifications. NRI warrants the quality of this product when used according to directions. Titan-MCU is not an approved coating system. Failing to coat per standard procedures can to atmospheric corrosion damage. Apply protective coatings per company standards. User shall determine suitability of product for use and assumes all risk. The seller will not accept liability for more than product replacement.

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