



# TECHNICAL DATA

PDS No.0818

## MCU 2100 TYPE VIII LOW V.O.C. PRIMER/INTERMEDIATE

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### SELECTION DATA

GENERIC TYPE: Aromatic Moisture Cured Urethane, Micaceous Iron Oxide Pigmented

PRODUCT DESCRIPTION: MCU 2100 Type VIII, is a single package high molecular weight primer/intermediate coat. MCU 2100 Type VIII is made using only natural micaceous iron oxide. It adheres tenaciously to power tool cleaned, rusted surfaces when abrasive blasting is not possible. MCU 2100 Type VIII is quick drying, easy to apply and shows good to excellent chemical resistance.

RECOMMENDED FOR: As a primer for the protection of steel or galvanized metals in corrosive or highly abrasive environments. An excellent coating for structural steel, machinery, tank exteriors, weathered or galvanized, and wire-brushed rusted surfaces. Its quick dry and recoat time makes it ideal for shop or field priming. Its ability to dry at temperatures as low as 28°F. makes it an ideal primer where low temperature application is required.

NOT RECOMMENDED FOR: Do not apply on wet or damp surfaces. If humidity is greater than 70%, add Steelcote Humidity Buffer per label instructions. For assurance of maximum adhesion, topcoat within twenty-four (24) hours.

#### PHYSICAL PROPERTIES

|                                       |                                                                                                           |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------|
| RESISTANCE TO:<br>(Splash & Spillage) | Acids: Fair to Good<br>Alkali: Fair to Good<br>Salts: Excellent<br>Solvent: Excellent<br>Water: Excellent |
| VOLUME SOLIDS:                        | 58.8+/- 2%                                                                                                |
| WEIGHT SOLIDS:                        | 76.3+/- 2%                                                                                                |
| FLASH POINT:                          | 81°F. (28°C.) TCC                                                                                         |
| SHELF LIFE:                           | 6 Months, Minimum                                                                                         |
| THINNER - REDUCTION:                  | 11% maximum with Steelcote T-200                                                                          |
| THINNER - CLEAN UP:                   | Steelcote T-200                                                                                           |
| APPLICATION TEMPERATURE:              | 28° - 90°F. (-2° - 32°C.)                                                                                 |
| SERVICE TEMPERATURE:                  | 320°F. (152°C.) Maximum                                                                                   |
| GLOSS:                                | Flat Metallic                                                                                             |
| COLOR:                                | Dark Black/Brown                                                                                          |
| PACKAGING:                            | 1 gal. Cans                                                                                               |
| WEIGHT PER GALLON:                    | 12.67 lbs (5.76 kg) ± 2%                                                                                  |
| V.O.C. (Volatile Organic Compound):   | 3.00#/gal (359 g/l) mixed                                                                                 |
| AIM CATEGORY:                         | Industrial Maintenance Coating                                                                            |

#### COVERAGES

|                                 |                                                                           |
|---------------------------------|---------------------------------------------------------------------------|
| THEORETICAL COVERAGE:           | 943 square feet per gallon at 1 mil DFT<br>(allow for application losses) |
| RECOMMENDED WET FILM THICKNESS: | 5-6 mils                                                                  |
| RECOMMENDED DRY FILM THICKNESS: | 2-3 mils                                                                  |
| DRYING TIME                     | @ 77°F. (25°C.) 50% RH                                                    |
| TO TOUCH:                       | 45 Minutes                                                                |
| TO RECOAT:                      | 4 Hrs. & within 24 Hrs.                                                   |
| FINAL CURE:                     | 7 Days                                                                    |

#### RECOMMENDED FINISH COATS

|                                 |                             |
|---------------------------------|-----------------------------|
| Single-Package Urethane:        | MCU 2100 Type IV, VI        |
| Two-Package Aliphatic Urethane: | Epo-Lux 595,520             |
| Epoxy:                          | Epo-Lux 221 FC, Tile-X 2000 |

## SURFACE PREPARATION

TO STEEL: Surface must be clean and free from oil, grease, moisture, loose and foreign matter. Although MCU products are designed to be "surface tolerant" for best performance, dry abrasive blast to a Commercial finish in accordance with Steel Structures Painting Council SSPC-SP6 or NACE 3 specification. Avoid blasting with coarse abrasives. Blast profile of 1 1/2 mils is recommended. Blast media of 40/60 mesh black beauty 3060 or 5075, or 100 grit aluminum oxide or approved equivalent may be used. Prior to blasting, remove any grease, oil, wax or contaminants by solvent wiping in accordance with SSPC-SP1 specification. After blasting, remove all aggregate, dust and grit by brushing or vacuuming and apply Steelcote MCU 2100 Type VIII per label instructions within 4 hours after blasting and always before any flash rusting can occur. Power tool cleaning in accordance with SSPC-SP3 specification is acceptable for rusted steel where blasting is not possible. Apply Steelcote MCU 2100 Type VIII per label instructions. Apply the Intermediate and/or Finish coats within twenty-four (24) hours. A three coat system is normally recommended for maximum performance on steel structures. Clean tools and equipment with Steelcote T-200 after use. If humidity is greater than 70%, add Steelcote Humidity Buffer per label instructions.

## MIXING INSTRUCTIONS

MCU 2100 Type VIII is a single component product. Mixing can be accomplished using a slow speed drill with a "Jiffy Mixer" attachment. Stir the material to blend any soft settlement from the bottom of the container until homogeneous mix is achieved. Dilute as necessary for good flow. If using only a partial container, clean the lid chine carefully before putting the lid back on. Once the lid is secure, store the container upside down to keep the material fluid.

## APPLICATION EQUIPMENT

- **Brush application is not recommended except in very small areas where uniformity of color and texture is not required.**

BRUSH: Use a clean, natural bristle brush. Stir thoroughly. For small area touch-up only.  
ROLL: **Do not roll.**

| CONVENTIONAL SPRAY                                                                       |                                              | AIRLESS SPRAY                                             |                                        |
|------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------|----------------------------------------|
| Gun:                                                                                     | Binks 18 or equal                            | Pump Ratio:                                               | 30:0                                   |
| Fluid Nozzle:                                                                            | 66                                           | Gun:                                                      | Graco 208-327 or equal                 |
| Air Nozzle:                                                                              | 66 PE                                        | Tip Size:                                                 | .021 Re-Versa-Tip & Teflon packing     |
| Air Hose ID:                                                                             | 1/4"                                         | Fan Size:                                                 | 6" - 10". Hold gun 12-14" from surface |
| Material Hose ID:                                                                        | 3/8". Max. length 50 ft.                     |                                                           | at a right angle to the surface        |
| Needle:                                                                                  | 65                                           | Pressure:                                                 | 1200-1800 psi                          |
| Pressure:                                                                                | Pot: 10 - 15 psi<br>Atomization: 40 - 50 psi | Material Hose ID:                                         | 3/8" with 30 mesh in-line screen       |
| Use moisture and oil traps.<br>Reduce up to 11% with Steelcote T-200, only if necessary. |                                              | Reduce up to 11% with Steelcote T-200, only if necessary. |                                        |

**"Tack coat" or double pass application for best results.**

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