



## TERACURE® MCR-2

**Aromatic Polyisocyanate Pre-Polymer Based On Diphenylmethane Diisocyanate (MDI)  
for Moisture-Cured Polyurethanes**

### TYPICAL CHARACTERISTICS

|                                 |              |
|---------------------------------|--------------|
| Appearance                      | Brown Liquid |
| NCO (As Supplied), %            | 16.5 ± 1.0   |
| Weight Per Gallon, Lbs @25°C    | 9.5          |
| Flash Point (CC), °C            | 460          |
| Weight Per Gallon, Lbs          | 8.3 - 8.5    |
| Viscosity @25°C, mPa·s          | 7000 ± 2000  |
| Equivalent Weight (As Supplied) | 255          |
| Solids Content, Approx, %       | 100          |

### COMPATIBILITY

TERACURE® MCR-2 is designed as a hardener for polyurethane primers, base coats, and clear coatings that require excellent chemical resistance and corrosion resistance. MCR-2 is compatible with urethane-grade ketones, aromatic solvents, and esters having very low moisture content. Urethane-grade solvents with a water content below 0.05% are recommended. Do not use alcohol solvents.

### APPLICATIONS

TERACURE® MCR-2 is an aromatic polyisocyanate pre-polymer based on diphenylmethane diisocyanate (MDI). TERACURE® MCR-2 can be used as the single component in moisture-cured formulations for application onto masonry and other porous substrates, either as a primer or as a topcoat.

TERACURE® MCR-2 can also be formulated for zinc-rich primers that provide galvanic protection to steel substrates. In these applications, re-coating intervals and compatibility with the topcoat should be tested for intercoat adhesion.

TERACURE® MCR-2 is designed for use as a hardener in 2K polyurethane coatings systems and composites, both clear and pigmented. Coatings systems and composites can be formulated to provide excellent mechanical properties along with good chemical resistance.

The information contained herein is to the best of our knowledge true and accurate and any suggestions are made without guarantee, express or implied, since the conditions of use are beyond our control. Pflaumer Brothers, Inc. disclaims any liability incurred in connection with the use of these data or suggestions.

## **FEATURES**

Designed for 2K Polyurethanes and 1K Moisture-Cure Polyurethanes

Outstanding Chemical and Corrosion Resistance

Outstanding Mechanical Properties and Toughness

Compatible with a Wide Variety of Isocyanates

## **RECOMMENDED USE LEVELS**

TERACURE® MCR-2 is for industrial use only. This product must be tested in advance both in the laboratory and hands-on field trials before use to determine the best formulation and suitability for use and application. Pflaumer's technical service center personnel are available to answer formulating questions. Recommended starter formulations can be designed upon request for specific applications.

## **SAFETY, STORAGE, AND HANDLING**

Store TERACURE® MCR-2 in tightly sealed containers. Prevent contact with moisture. Once opened, any remaining TERACURE® MCR-2 in the container is best stored under dry nitrogen blanketing. Keep storage temperatures at 18°C - 40°C (64°F - 104°F). Shelf life of TERACURE® MCR-2 is 6 months from date product is shipped by Pflaumer and then maintained in original closed containers and stored in proper storage conditions at 25°C (75°F). Avoid containers made with polyethylene, polystyrene, copper or tin.

Heated MCR-2 will generate vapors more rapidly than material at room temperature. Follow the precautions in the SDS, particularly for personal protection, when handling heated MCR-2. At all times consult the SDS before use.

## **CONTAINER SIZES**

55 Gallon Drum (441 Lbs.)

275 Gallon Tote (2,205 Lbs.)

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## PFLAUMER PRODUCTS FOR HIGH-PERFORMANCE COATINGS

Pflaumer offers a wide variety of products to formulate high-performance coatings:

|  |  |
|--|--|
| TERAMINE® Hardeners for Epoxies                                  | A wide variety of hardeners for fast-cure, medium-cure, and slow-cure 2K epoxies   |
| TERACHEM® 53-Colorants   | Ready-to-use pigment dispersions of masstones and tints for 2K epoxy, polyurethane, polyurea and polyaspartic systems  |
| TERACURE® Aliphatic Polyisocyanates N-series                     | Complete line of HDI-based trimer and biuret isocyanates   |
| TERASPARTIC® Polyaspartic Amines                                 | A variety of aspartic amine resins to provide slow, medium and fast curing options.  |
| TERACURE® Aromatic Polyisocyanates M-series                      | MDI-based aromatic isocyanates for polyureas and urethanes   |
| TERACHEM® Polyols  | Specialty polyols for urethane coatings  |
| TERAMINE® Reactive Diluents                                      | TERAMINE® A-140 for polyurea and polyaspartic systems  |
| TERAFLEX® Non-Reactive Diluents                                  | TERAFLEX® DME-200 for polyaspartics, polyurethanes, and polyureas  |
| TERACHEM® Moisture Scavengers                                    | Molecular sieve pastes for polyaspartics, polyurethanes, and other applications  |
| Intermediates and Modifiers                                      | TERAMINE® A-136 cycloaliphatic secondary di-amine for polyaspartics, epoxies, and polyureas; TERAMINE® cycloaliphatic amines (PACM, MACM) for epoxies; TALLICIN® 3001 extends pot life for urethanes and polyaspartics |
| TALLICIN® Wetting Agents, Dispersants, and Grinding Resins       | A wide range of surfactants, wetting agents, and dispersants for both solvent-based and water-based formulations; TALLICIN® acrylic and modified-acrylic grinding resins   |
| TALLICIN® Surface Tension Agents                                 | A variety of bubble-release, flow and leveling modifiers for solvent-free polyaspartics, epoxies, and polyurethanes  |
| TALLICIN® Catalysts  | Tin based catalyst for polyurethanes   |
| TERASIL® Single-Component Moisture-Cure Modified Hydrogel Silane | A modified hydrogel silane for moisture-cure coatings on a wide range of indoor and outdoor substrates, including metal, wood, concrete, plastics, and composites.   |

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