



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
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 top coat. 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 top coat 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.

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

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PROUDUCT USES (For professional use only. Not intended for retail sales.)

Teracure® MCR-2 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.

OTHER PFLAUMER PRODUCTS FOR THE FORMULATOR

Pflaumer offers other products for formulating 2K coatings:

Terachem ® 53-Colorants	37 Ready-to-use pigment dispersions for 2K polyurethanes and polyaspartics, including color packs for on-site use
Teracure ® Aliphatic Polyisocyanates	Complete line of HDI-based trimer isocyanates
Teraspartic ®Polyaspartic Amines	For slow, medium, and fast curing
Terachem ®53-2242	Anti-sag additive for 2K polyaspartics
Terachem ®53-2371	Aluminum Oxide Nano-Dispersion for 2K polyaspartics
Tallicin ®1500	Flow and leveling modifier
Tallicin ®3000	Pot life extender for trimer-type isocyanates used in 2K polyurethanes
Tallicin ®4000	Bubble-release, agent and flow/leveling modifier for high-solids polyurethanes
Tallicin ® 4040	Bubble-release, flow and leveling modifier for solvent-free polyaspartics and polyurethanes
Tallicin ®4600	Stabilized Tin Catalyst for Polyurethanes

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 MSDS, particularly for personal protection, when handling heated MCR-2. At all times consult the MSDS before use.

CONTAINER SIZES

55 gallon drums (225 Kg/496 Lb)

275 gallon totes (1125 Kg/2480 Lb)

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