



MiraThane CRU Gloss

Product Technical Data Sheet

MiraThane CRU Gloss is a two-component, medium-solids, water-based, low VOC, low odor, highly abrasion resistant and high-performance aliphatic polyurethane coating. Exhibiting excellent UV-stability, abrasion and wear resistance, chemical resistance, stain resistance and superior cleanability, *MiraThane CRU Gloss* is ideal for use as a topcoat or finish coating over resinous base coats, cementitious and other floor/wall coating systems.

WHERE TO USE

- High performance topcoat for protective coating systems.
- Protective finish coat for cementitious overlays & micro-toppings.
- Optional topcoat or finish for epoxy trowel and broadcast systems.
- Laboratories, pharmaceutical health care facilities.
- Manufacturing and warehouse flooring.
- Educational buildings, museums, and stadiums.
- Retail, restaurants, cafeterias, and food service flooring.
- General protective coating for high traffic service conditions.

ADVANTAGES

- High wear resistance.
- Excellent chemical and abrasion resistance.
- VOC < 5 g/l - Conforms to most air quality jurisdictions.
- Low co-solvent content - very low odor.
- Outstanding scratch resistance and cleanability.
- Displays superior UV resistance and stability.
- Acceptable for use in USDA facilities.
- Low viscosity polyisocyanate – easy to mix by hand.
- Excellent for interior and exterior exposure conditions.
- Accepts synthetic media for slip resistance.
- Minimize floor care and maintenance costs.
- Provides an attractive, glass-like finish.
- High crosslinking density – hot tire resistance.

THEORETICAL COVERAGE RATES

320 - 500 sq. ft. per gal. (3-5 WFT)

PACKAGING and COLORS

Kit Size: 3.0-gallon unit
Component A: 3-gallon pail
Component B: .5-gallon can
Available in clear only.

MIX RATIO

MiraThane CRU Gloss:

Comp. A: Comp. B = 5:1 by volume. **Mix the entire kit.**

SHELF LIFE AND STORAGE

Six months from the date of manufacture as long as containers remain unopened, and the material is stored in a protected environment free from moisture, excessive heat, freezing temperatures, and direct sunlight.

TYPICAL PHYSICAL PROPERTIES @ 75F (24C)

Solids Content (by weight)	46%		
Solids Content (by volume)	44%		
Viscosity	<500 cps		
Pot Life 50% RH	> 2 hours		
Recoat Time	4hrs. min. - 24 hrs. max.		
Taber Abrasion ASTM D4060	27 mg/loss (CS17 Wheel. 1000g Load. 1,000 Cycles)		
Moisture Vapor Permeance ASTM E-96	6.3 perms		
Gloss, 60 deg. ASTM D2370	70-80		
Chemical Resistance (Refer to Chemical Resistance Chart for Entire List)			
Gasoline	No Effect	Isopropyl Alcohol	No Effect
Kerosene	No Effect	Hydrogen Peroxide	Slight Stain
Skydrol	No Effect	Hydrochloric Acid 25%	No Effect
Hydraulic Fluid	No Effect	Sodium Hydroxide 50%	No Effect

OVERVIEW OF INSTALLATION STEPS

- **Surface Preparation** – All surfaces must be clean, sound, dry and free from any bond inhibiting substances including, but not limited to, grease, oil and any other contaminants or loosely adhered materials.
- **Mixing** – *MiraThane CRU Gloss* polyurethane resin components must be mixed mechanically using a low-speed drill (300-450 rpm) until blended with a clean “Jiffy-type” or similar Miracote-approved mixing paddle. Mix for approximately 3 minutes keeping the mixing head fully submerged throughout the process. At least once when mixing, stop to scrape down the sides and bottom of the pail to ensure thorough blending of both components. Once completely mixed and in observance of pot life, dispense material immediately from the pail to the underlying Miracote floor or wall base coat. Due to the potential for incompletely mixed material clinging to the inside of the mixing pail, avoid scraping mixed *MiraThane CRU Gloss* from the inside of the pail to the substrate during application.
- **Application** – Proceed to apply *MiraThane CRU Gloss* via dip and roll or spread evenly with a flat squeegee and back-roll. Only use a high quality, phenolic core, industrial grade 3/16” to 1/4” maximum nap roller to achieve mil consistency.

FOR BEST RESULTS

- Always install a minimum 4’ by 4’ test area site mock-up for approval of acceptable color, texture, finish, adhesion, and any other critical requirement acceptable to the owner prior to proceeding with the installation.
- Verify and download current versions of product technical data sheets (PTDS), material safety data sheets (MSDS), and installation guides (IG) at www.miracote.com.
- Protect materials at all times from excessive heat and cold, and pre-condition to room temperature, as necessary. Regularly check wet film thickness with a mil gauge and monitor consumption to ensure correct application rates are obtained.
- For best results and maximum protection always apply two coats with the second at opposite direction from the first.
- For exterior elevated (not on-grade) exposure conditions only prime with MiraPrime WB, a single component acrylic primer.

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- The proper application of this product is the sole responsibility of the end user. Job site visits by Miracote representatives are only for the purpose of making recommendations, and do not assume any liability for supervision or quality control.
- Measure surface and ambient temperatures to ensure the material is only applied when temperatures are 55°F (13°C) and rising, and less than 90°F (32°C) during placement and cure time.
- **Caution:** Over non-textured and smooth surfaces *MiraThane CRU Gloss* will most likely dry to an orange-peel finish. If a glass-like finish is desired apply a test area to verify prior to proceeding with full scale application.

LIMITATIONS

- Not intended for use directly over unprimed concrete substrates. Pre-prime with appropriate Miracote epoxy or acrylic primer.
- For exterior exposure conditions do not use epoxy primers which will yellow from UV.
- Minimum and maximum, ambient and substrate temperatures of 55°F (13°C) or 90°F (32.2°C) respectively, are required during application.
- Previously applied floor coating must be dry to the touch, and *MiraThane CRU Gloss* must only be applied within the required recoat window of the previous coat.
- Do not apply under the threat of rain within 24 hours or if the temperature is less than 5°F above dew point.
- Do not apply to damp substrates.
- Maximum allowable moisture vapor transmission (MVT) of 3.0 lbs./1000 sf./per 24 hr. period per ASTM F1869 (CaCl Testing).
- Maximum allowable moisture vapor transmission (MVT) of 75% RH as per ASTM F2170 (RH-Relative Humidity Testing).
- Use MiraPrime MVERS epoxy moisture mitigation primer over concrete substrates that have MVT emissions that exceed these limits.
- Since product technical data and specifications are prone to occasionally change, it is the user's responsibility to make certain the most current versions are being used.
- As previously stated above in For Best Results, *MiraThane CRU Gloss will dry to an orange-peel finish if applied over a smooth non-textured surface.* Always verify results via a mock-up sample before proceeding.

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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**MIRATHANE CRU GLOSS
6-12-2025**