

### RiteThane RT Series

#### Direct To Metal Urethane

##### General Description:

RiteThane RT Direct To Metal Urethane is a high build isocyanate cured acrylic urethane for industrial exterior direct to metal applications requiring excellent weathering, corrosion and chemical resistance. Sufficient film build can be achieved with a single coat application. Typical uses include; railcar exteriors, watertowers, storage tanks, and structural steel.

##### Mixing and Thinning Instructions:

Mix 4 parts RiteThane RT DTMU part A (colored/tinted) with 1 part RT100B catalyst. No reduction is necessary. If reducing or thinning is required, please contact your Ritek technical service representative for instructions.

##### Directions for Use:

Surface must be clean, dry, sound and free of dirt, dust, grease, oils, residues, waxes, water, foreign particles, and any other contaminants that may interfere with coating adhesion and intimate contact with substrate. Substrate preparation may include abrasive blasting, high pressure water/steam cleaning, chemical cleaning and/or other approved method to achieve clean and sound surface, including priming. Contact your Ritek representative for recommendations.

RiteThane RT DTMU is designed to be applied by airless spray with 0.013-0.017" tips at 3000-5000 psi. During application, the substrate temperature must be 5 degrees above the dew point. Condensation due to substrate temperatures below the dew point can result in flash rusting on prepared steel and negatively impact adhesion to the substrate.

##### Clean up:

Clean all equipment immediately after use with methyl ethyl ketone (MEK), acetone, or other RT approved solvents. Use clean solvent only. In case of spill, absorb and dispose of in accordance with local, State, and/or Federal regulations.

##### Packaging/Storage

RiteThane RT DTMU is available in 1-gallon kits, 5-gallon kits and 55-gallon steel drums. For additional packaging options, please contact your local Ritek representative.

Store indoors in original, tightly sealed container out of direct sunlight between 40°F (5°C) and 100°F (38°C), 0% to 90% relative humidity. Warranted shelf life is 1 year from date of manufacture (DOM) in original unopened and properly stored container.

**Underwriters  
Laboratory  
Recognized**



##### Typical Mixed Properties

Color:	Various
Type:	Isocyanate cured Acrylic Urethane
Viscosity (77°F):	25-35 sec (#3 Zahn)
Dry Time (77°F):	2 hrs. Touch, 6 hrs. handle
Weight/Gallon:	9.1-11.6 lbs./gal
% Solids (by Volume):	64-68%
% Solids (by Weight):	74-80%
VOC:	1.7-1.9 lbs./gal
Recoat:	Min. 8 hrs., Max. 5 days
Flash Point:	5°F
Pot Life:	3 hrs. @ 25°C(77°F)
Gloss:	95 degrees
Recommended DFT:	4-6 mils (100-150 um) per coat
Maximum DFT:	10 mils (250 um) per coat
Coverage:	1000-1100 ft <sup>2</sup> @ 1.0 mils
Sag Resistance:	12+ mils (300 um)
Mix Ratio:	4:1

Typical properties given do not constitute a supply specification.

##### Safety, Health and Environmental Info:

Before handling or using this product please refer to the Safety Data Sheet for complete health, safety and environmental information. Dispose of waste in accordance with local, state and federal regulations.

Avoid contact with skin. Use good ventilation. Wear chemically resistant gloves (nitrile are recommended) and chemical safety glasses. If skin contact is made, wash immediately with soap and water. Do not use solvents to clean skin.

**FOR PROFESSIONAL USE ONLY  
NOT FOR RESIDENTIAL USE  
KEEP OUT OF REACH OF CHILDREN**

We warrant our products to be of good quality and will replace or, at our discretion, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, RITEKS MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. Ritek shall have no other liability with respect thereto. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. The information provided herein is based on technical data that Ritek, Inc. believes to be reliable. Ritek, Inc. makes no representation or warranty as to the completeness or accuracy thereof and assumes no liability resulting from its use for any claims, losses, or damages of any third party. Recipients receiving this information must exercise their own judgment as to the appropriateness of its use and it is the user's responsibility to assess the material's suitability (including safety) for a particular purpose prior to such use.





# Performance Data

## Coatings, Sealants & Adhesives

### RiteThane RT Series

#### Direct To Metal Urethane

High Solids Direct-to-Metal 1.8 VOC 2K Urethane

Test	Test Method	Result
Adhesion	ASTM D3359	5A (0% loss)
Pencil Hardness	ASTM D3363	HB-H
Abrasion resistance	ASTM D4060	1000 cycles, 200 mg loss
Bend – Flexibility	ASTM D522	Passes <u>1/8 inch</u> Mandrel Bend
Impact	ASTM D2794	160 in/# Direct 160 in/# Reverse
Salt Fog	ASTM B117	1000 hours, 5 mils dft on Blasted Steel–No rusting/blistering
Humidity	ASTM 4585	1000 hours, 5 mils dft on Blasted Steel–No rusting/blistering
QUV – UVA-340	ASTM G154	5000 hours, excellent color & gloss retention

We warrant our products to be of good quality and will replace or, at our discretion, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, **RITEKS MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.** Ritek shall have no other liability with respect thereto. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection there with. The information provided herein is based on technical data that Ritek, Inc. believes to be reliable. Ritek, Inc. makes no representation or warranty as to the completeness or accuracy thereof and assumes no liability resulting from its use for any claims, losses, or damages of any third party. Recipients receiving this information must exercise their own judgment as to the appropriateness of its use and it is the user's responsibility to assess the material's suitability (including safety) for a particular purpose prior to such use.



11917 Cutten Road Houston, TX 77066  
Ph: [281] 569-3500 • Fax: [281] 569-3508  
[www.riteks.com](http://www.riteks.com)

V2023.9a