

### MCTHANE™ 5150 RUST BARRIER

<b>GENERIC</b>	Advance technology cross-linked aromatic polyurethane resin based on diphenylmethane diisocyanate reinforced with non-leafing aluminum flake which cures by reacting with atmospheric moisture. The polymer structure is extremely adhesive and chemically inert.
<b>DESCRIPTION</b>	High solids single component moisture curing urethane coating designed to provide penetration, wetting and sealing of substrates and surfaces which will be exposed to extremely severe chemical and physical environments. Can be applied in cold damp conditions and subjected to early fog, rain, snow or condensation after application. It has excellent adhesion, flexibility, toughness, impact and abrasion resistance properties. The cured film (free of solvents) conforms to United States Department of Agriculture requirements for incidental contact with food.
<b>USE</b>	Self-priming to most substrates and poorly prepared surfaces. Provides a high degree of protection against moisture, corrosive fumes and chemical contact. The principal use is in water-chemical problem areas such as storage tanks and reservoirs, industrial plants, bridge structures, agriculture, water and wastewater treatment facilities. Intended for use in both shop and field operations in combination with many other CORCHEM <sup>®</sup> products. Suggested, as an all-purpose highly corrosion resistant protective coating, which also may be used as a barrier coat between conventional finishes and many specialized coatings.
<b>SERVICE LIMITATIONS</b>	Temperature resistance up to 350°F (dry) depending upon the individual exposure. CONTACT CORCHEM <sup>®</sup> FOR SPECIFIC RECOMMENDATIONS BEFORE PROCEEDING for exposure to corrosive chemicals and elevated temperatures.
<b>COLORS</b>	Aluminum, Gray, or Black
<b>FINISH</b>	Low Gloss
<b>CAUTION!</b>	62%
<b>VOLUME SOLIDS</b>	Temperature resistance up to 350°F (dry) depending upon the individual exposure. CONTACT CORCHEM <sup>®</sup> FOR SPECIFIC RECOMMENDATIONS BEFORE PROCEEDING for exposure to corrosive chemicals and elevated temperatures.
<b>DRY COVERAGE</b>	Theoretical (no loss): 992 sq. ft. per gallon for one mil (.001). When computing coverage allow for application loss and surface irregularities.
<b>DRY FILM THICKNESS</b>	1.0 to 5.0 mils per coat. Multiple applications are recommended and may be necessary to achieve the specified or desired film thickness or due to variations in design configurations, application equipment, temperature and other factors.

<b>COMPONENTS</b>	One				
<b>POT LIFE</b>	8 hours @ 70°F (after container is opened).				
<b>WEIGHT PER GALLON</b>	9.3 lbs				
<b>VOC CONTENT</b>	330 gms/l or 2.75 lbs/gal. Conforms to United States National Volatile Organic Compound Emission Standards.				
<b>THINNER</b>	CORCHEM® 8. Thin only as required for proper application. Do not exceed applicable volatile organic compound (VOC) regulations. Thinner added:				
	<table border="1"> <tr> <td>05% - 356 gms/lit or 2.97 lbs/gal</td> <td>10% - 380 gms/lit or 3.17 lbs/gal</td> </tr> <tr> <td>15% - 401 gms/lit or 3.34 lbs/gal</td> <td>20% - 420 gms/lit or 3.50 lbs/gal</td> </tr> </table>	05% - 356 gms/lit or 2.97 lbs/gal	10% - 380 gms/lit or 3.17 lbs/gal	15% - 401 gms/lit or 3.34 lbs/gal	20% - 420 gms/lit or 3.50 lbs/gal
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<b>APPLICATION METHODS</b>	Air or airless spray, roller, brush (small areas).				
<b>TEMPERATURES</b>	Apply from below freezing to 125°F (Air and Surfaces). Sudden and/or substantial temperature change during curing process can cause film defects.				
<b>RELATIVE HUMIDITY</b>	Apply at less than 99%.				
<b>CURING TIME</b>	Recoat 4-72 hours @ 70°F & 50% relative humidity ( <u>perform spot adhesion test and refer to RECOAT AND REPAIR Section if coating reaches complete cure and hardness or if subjected to extended exposure to sunlight</u> ). Final cure is 1 day. Recoat/curing time is <u>significantly shorter for higher temperatures or higher relative humidity and longer for lower temperatures or lower relative humidity</u> . Recoat/curing time is affected by the method of application; the quantity of thinner used; the amount of ventilation and air circulation; etc.				
<b>NOTICE!</b>	For fast curing and low temperature applications the use of CORCHEM® 25 ACCELERATOR may be desired. Contact CORCHEM® for instructions and cure times.				
<b>PACKAGING</b>	1-gallon cans and 5-gallons pails.				
<b>SHELF LIFE</b>	One year from shipment date protected between 40°F and 100°F.				
<b>DOT/FLASH POINT</b>	Flammable Liquid Classification.				
<b>PERFORMANCE DATA</b>	Contact CORCHEM® for desired information.				
<b>SURFACE PREPARATION</b>	Round off sharp edges and rough welds. Burrs and weld spatter should be completely removed. Surfaces must be clean, and free of any ice, water droplets or puddles, dirt, chalk, grease, oils, salts, and deleterious materials before application is performed. Vacuum the topside of all horizontal and sloped surfaces.				
<b>CARBON STEEL</b>	Severe Exposures: SSPC-SP-6 (Commercial Blast Cleaning). Mild Exposures: SSPC-SP-3 (Power Tool Cleaning) or SSPC-SP-2 (Hand Tool Cleaning). Metal surfaces should have an anchor profile of one mil (.001) or more.				
<b>WELDING</b>	Welding should precede coating. If already coated, follow instructions in U.S.A. Standard Z49.1 Safety in Welding and Cutting.				

<b>EXISTING COATINGS</b>	Surface should be clean and free of any ice, water droplets or puddles, dirt, chalk, grease, oils, salts, and deleterious materials before application is performed. <b><u>Perform a test patch to check adhesion and compatibility.</u></b> If necessary abrade the surface sufficiently to provide a profile adequate to ensure a mechanical bond. The use of CORCHEM® 11 ADHESION PROMOTER may be desired
<b>APPLICATION MIXING</b>	All equipment should be cleaned and flushed with CORCHEM® 8 THINNER. This product will be affected by water contamination. Power stir, until completely mixed and continue agitation during application. Strain only if required for proper application. <b><u>Do not allow mixed material to stand in equipment after use!</u></b> Clean immediately with CORCHEM® 8 THINNER or Methyl Ethyl Ketone (MEK).
<b>APPLY</b>	In an even wet coat. Ensure seams and irregularities are completely covered. Application below minimum or above maximum suggested dry film thickness ranges might adversely affect performance.
<b>RECOAT AND REPAIR</b>	If material has reached complete cure and hardness, or if subjected to extended exposure to sunlight, uniformly abrade the surface and feather the edges. The surface must be roughened sufficiently to provide a profile adequate to ensure a mechanical bond. The use of CORCHEM® 11 ADHESION PROMOTER may be desired.
<b>INSPECTION</b>	Check for desired dry film thickness and for pinholes, holidays, bare areas, etc. before placing in operating service.
<b>AIRLESS SPRAY</b>	Graco or equal. Pump ratio 30:1 or higher, 206-718 gun with fluid tip of .021" or larger orifice size with Reverse-A-Clean tip, 3/8" I.D. or larger high-pressure solvent resistant fluid line, 1/2" I.D. or larger air supply line. Continuous air source capable of 80 to 100 psi inbound pressure at pump.
<b>CONVENTIONAL SPRAY</b>	Binks or equal. Pressure material pot with mechanical agitator, dual regulators, air-gages, and oil and moisture separators. No. 2001 gun (external mix), 68 fluid nozzle, 568 fluid needle, 68 PB air cap, heavy-duty fluid spring, Teflon fluid packing, 1/2" I.D. or larger high solvent resistant fluid line and 3/8" I.D. or larger air-supply line. Continuous air source capable of 20 cfm or more at 80 psi per nozzle and 60 psi to the pot.
<b>GENERAL</b>	Regulate pressure as required for proper application. Proportionally adjust pressure higher for smaller hose diameter and/or longer hose length and adjust pressure lower for larger hose diameter and/or shorter hose length. Select tip angles and orifice diameters according to application needs.
<b>ROLLER</b>	Carpet-type roller covers.
<b>BRUSH</b>	Short hair or natural bristle.
<b>CLOTHING</b>	Wear protective garments, shoes, goggles, and filter masks. Use protective barrier creams on exposed skin areas.

## **CONFINED SPACES**

Use explosion-proof lighting and electrical equipment, non-sparking tools, clothes and shoes. Ground all structures and equipment. Use procedures that prevent static electrical sparks. Wear properly fitted appropriate NIOSH/MSHA approved fresh air respirator such as MSA or equal with 1/4" I.D. or larger air supply line connected directly to proper air source during and after application unless air monitoring demonstrates vapor/mist levels are within safe limits. Use suction type exhaust fans and blowers with sufficient cfm capacity to keep solvent vapors below 20% of the explosive limit. **CAUTION!** Air circulation and exhausting of solvent vapors must be continued until the coatings have fully cured to insure that no potential for fire, explosion or health hazard remains.

### **SAFETY INFORMATION**

**THIS PRODUCT CONTAINS PETROLEUM DISTILLATES, AROMATIC POLYOCYANATE RESINS AND METALLIC ALUMINUM COMPOUNDS. DO NOT USE IF YOU HAVE HAD A REACTION TO THESE MATERIALS.**

**WARNING! FLAMMABLE! VAPOR HARMFUL! CAUSES SEVERE EYE AND SKIN BURNS. MAY CAUSE SKIN SENSITIZATION OR OTHER ALLERGIC RESPONSES. HARMFUL OR FATAL IF SWALLOWED!**

Keep away from heat, sparks, and open flame. Use only with adequate ventilation. Prevent breathing of vapor or spray mists. Wear a properly fitted appropriate respirator during application and until all vapors and spray mists are gone. **DO NOT USE IF YOU HAVE CHRONIC LUNG OR BREATHING PROBLEMS.** Prevent contact with eyes and skin. Do not take internally. Keep closures tight and upright to prevent leakage. Keep container closed when not in use. In case of spillage, absorb and dispose of in accordance with local applicable regulations. **FIRST AID:** In case of skin contact, wash thoroughly with soap and water; for eyes, flush immediately with plenty of water for 15 minutes and call a physician. Remove and wash contaminated clothing before reuse. (Discard contaminated shoes). If inhaled, remove to fresh air. If breathing difficulty persists or occurs later, consult a physician and have label and MSDS information available. If swallowed, **CALL A PHYSICIAN IMMEDIATELY. DO NOT INDUCE VOMITING.**

**IN CONFINED SPACES AND TANKS OBEY SPECIAL SAFETY AND EQUIPMENT INSTRUCTIONS!**

**FOR INDUSTRIAL USE BY PROFESSIONAL APPLICATORS ONLY. NOT INTENDED FOR SALE TO THE GENERAL PUBLIC. This product should not be sold or delivered to any person under 18 years of age. KEEP OUT OF THE REACH OF CHILDREN! IF, FOR ANY REASON, ADDITIONAL PRODUCT AND SAFETY INFORMATION, INSTRUCTIONS OR EXPLANATIONS ARE NEEDED, CONTACT CORCHEM® IMMEDIATELY!**

### **LIMITED WARRANTY**

**WARRANTY & LIMITATION OF SELLER'S LIABILITY:** CORCHEM® CORPORATION warrants only that its coatings represented herein meet the formulation standards of CORCHEM® CORPORATION.

THE ABOVE WARRANTY SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTIONS ON THE FACE HEREOF.

The buyer's sole and exclusive remedy against CORCHEM® CORPORATION shall be for replacement of the product in the event, a defective condition of the product should be found to exist. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. The sole purpose of this exclusive remedy shall be to provide buyer with replacement of the product if any defect in materials is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as CORCHEM® CORPORATION is willing and able to replace the defective materials.

Technical and application information is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and CORCHEM® CORPORATION makes no claim these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.

PUBLISHED TECHNICAL DATA AND INSTRUCTIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.  
CONTACT YOUR CORCHEM® REPRESENTATIVE FOR CURRENT TECHNICAL DATA AND INSTRUCTIONS.

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