



HydraTech 8001 WaterLine Epoxy

Potable Water Pipeline Renewal

Issue 10.14

PRODUCT DESCRIPTION	PHYSICAL PROPERTIES																																		
<ul style="list-style-type: none"> A High Build, solvent free epoxy lining system. Certified for potable water contact in the United States (NSF/ANSI 61). Low temperature cure down to 37°F (3°C). Fast recommissioning time at minimum cure temperature of 37°F (3°C). Fully trained application specialists. Compatible with a variety of substrates. Full contract support services, when required. 	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Color</td> <td>Base - Black Hardener - White Mixed - Gray</td> </tr> <tr> <td>Mix Ratio (by volume)</td> <td>2:1 V/V Base:Hardener</td> </tr> <tr> <td>Working Life – 68°F (20°C)</td> <td>15 Minutes</td> </tr> <tr> <td>Drying Times – 40°F (3°C)</td> <td>Touch - 3 Hours Hard - 6 Hours Useable -16 Hours</td> </tr> <tr> <td>Wet Film Thickness (mils)</td> <td>40 (1000μ)</td> </tr> <tr> <td>Dry Film Thickness (mils)</td> <td>40 (1000μ)</td> </tr> <tr> <td>% Volume Solids</td> <td>100</td> </tr> <tr> <td>Theoretical Coverage (@ 40 mils)</td> <td>10.76 ft²/liter (40.78 ft²/gal)</td> </tr> <tr> <td>Flash Point</td> <td>Above 212°F (100°C)</td> </tr> <tr> <td>Storage Life</td> <td>Twelve months when stored in original sealed containers, between 50-77°F (10-25°C)</td> </tr> <tr> <td>Tensile Strength (MPa)</td> <td>22.26</td> </tr> <tr> <td>Elongation at Yield (%)</td> <td>1.18</td> </tr> <tr> <td>Young's Modulus (MPa)</td> <td>1814</td> </tr> <tr> <td>Compressive Yield Strength (MPa)</td> <td>118.67</td> </tr> <tr> <td>Flexural Strength (MPa)</td> <td>38.21</td> </tr> <tr> <td>Coating to Concrete Bond Strength (N)</td> <td>3316</td> </tr> <tr> <td>Coating to Metal Bond Strength (N)</td> <td>2808</td> </tr> </table>	Color	Base - Black Hardener - White Mixed - Gray	Mix Ratio (by volume)	2:1 V/V Base:Hardener	Working Life – 68°F (20°C)	15 Minutes	Drying Times – 40°F (3°C)	Touch - 3 Hours Hard - 6 Hours Useable -16 Hours	Wet Film Thickness (mils)	40 (1000μ)	Dry Film Thickness (mils)	40 (1000μ)	% Volume Solids	100	Theoretical Coverage (@ 40 mils)	10.76 ft ² /liter (40.78 ft ² /gal)	Flash Point	Above 212°F (100°C)	Storage Life	Twelve months when stored in original sealed containers, between 50-77°F (10-25°C)	Tensile Strength (MPa)	22.26	Elongation at Yield (%)	1.18	Young's Modulus (MPa)	1814	Compressive Yield Strength (MPa)	118.67	Flexural Strength (MPa)	38.21	Coating to Concrete Bond Strength (N)	3316	Coating to Metal Bond Strength (N)	2808
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<p style="text-align: center;">A HIGH BUILD, SOLVENT-FREE, EPOXY LINING SYSTEM FOR POTABLE WATER APPLICATIONS</p> <p>The HydraTech Waterline product is a fast-curing, solvent-free epoxy coating.</p> <p>Tested and certified by NSF:</p> <p style="padding-left: 40px;">NSF International (NSF/ANSI 61) United States for pipe ≥ 4 inches in diameter and tanks ≥ 5 gallons</p>	<p style="text-align: center;">APPLICATION RECOMMENDATIONS</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Minimum Application Temp</td> <td>40°F (3°C)</td> </tr> <tr> <td>Maximum Relative Humidity</td> <td>85%</td> </tr> <tr> <td>Substrate Temperature</td> <td>5°F (3°C) above dew point</td> </tr> <tr> <td>Thinning</td> <td>Not Recommended</td> </tr> <tr> <td>Brush/Roller Application</td> <td>Multi-coats are necessary to achieve correct film thickness. To aid application at low temperatures, both components should be warmed to 60-68°F (15-20°C) prior to mixing. Mix and apply as quickly as possible.</td> </tr> <tr> <td>Airless Spray Application</td> <td>See attached Airless Spray Details page.</td> </tr> <tr> <td>Cleaning Fluid</td> <td>Universal equipment Cleaner</td> </tr> </table>	Minimum Application Temp	40°F (3°C)	Maximum Relative Humidity	85%	Substrate Temperature	5°F (3°C) above dew point	Thinning	Not Recommended	Brush/Roller Application	Multi-coats are necessary to achieve correct film thickness. To aid application at low temperatures, both components should be warmed to 60-68°F (15-20°C) prior to mixing. Mix and apply as quickly as possible.	Airless Spray Application	See attached Airless Spray Details page.	Cleaning Fluid	Universal equipment Cleaner																				
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<p style="text-align: center;">PRODUCT INFORMATION INCORPORATING TECHNICAL AND HEALTH & SAFETY DATA</p> <p>SUGGESTED USE:</p> <p>A low temperature cured lining system for equipment, vessels and pipes which require approval for contact with drinking water for human consumption.</p> <p>SURFACE PREPARATION:</p> <p>Surfaces must be sound and free from grease, dust and, if possible, all moisture.</p>																																			



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PHYSICAL DATA

APPEARANCE:	Base – Black Thixotropic Liquid Reactor – White Liquid
ODOR:	Base – Very Mild Reactor – Strong Amine Odor
COMPOSITION:	Base – Epoxy Resin, Iron Oxide, Thixatropo Reactor – Aliphatic Amine, Silica, Titanium Dioxide
% VOLATILES:	Base – 0% Reactor – 0%
FLASH POINT: (Abel Closed Cup)	Base – 212°F (100°C) Reactor -212°F (100°C)
O.E.L. (8 Hours):	Base – Unknown Reactor – Unknown
LD50: (Indications Only)	Base – Unknown Reactor – Unknown

AIRLESS SPRAY DETAILS

EQUIPMENT:	Dual component feed hot airless spray
SPRAY TEMPERATURE:	95-115°F (35-45°C)
SPRAY PRESSURE:	Minimum 2200 psi at the tip
NOZZLE SIZE:	19-21 thou tip 60° nozzle angle
WORKING TIME: (@104°F [40°C])	Maximum 5 minutes

PERSONAL PROTECTION

INHALATION:	Wear suitable respiratory cartridge mask in enclosed spaces. Work in well ventilated areas.
EYES:	Wear suitable goggles.
SKIN:	Wear protective clothing and gloves made of impervious material.
STORAGE:	Store away from direct sunlight and sources of heat. Do not allow temperature to exceed 77°F (25°C).

SPILLAGE

CLEAN-UP METHOD:	Scrape up excess material or absorb onto sand or sawdust and place in sealable containers. Ventilate area, avoid inhalation of vapors.
WASTE DISPOSAL:	See MSDS.

FIRE

EXTINGUISHING METHODS:	Fire Carbon Dioxide, Dry Powder, Water Mist.
SPECIAL PROCEDURES:	Do not inhale vapors.
UNUSUAL HAZARDS:	Dangerous to aquatic life. Do not let uncured material enter the water course.

FIRST AID PROCEDURE

	<u>EFFECT</u>	<u>EMERGENCY FIRST AID</u>
INHALATION	Headache	Remove into fresh air; loosen collar; do not walk around.
SWALLOWING	Irritation	Do not induce vomiting; seek medical advice.
EYES	Irritation	Flush with clean water for ten minutes; seek medical advice
SKIN	Irritation	Remove contaminated clothing; wash thoroughly with soap and water.