

MIR-900

Industrial Strength Steel Primer

DESCRIPTION	MIR-900 is flexible, urethane based primer system that welds tenaciously to steel surfaces and MIR resins.			
FEATURES AND BENEFITS	Urethane based technology	<ul style="list-style-type: none"> • Single coat application. • Good temperature resistance. • Impact resistant. • Good chemical resistance. • Flexible. • Bonds well with urethane and MIR based structural coating materials. 		
	Surface preparation	<ul style="list-style-type: none"> • A dry abrasive blasting with a class Sa 2½ finish with a 50 to 100 microns profile. 		
	Applicator	<ul style="list-style-type: none"> • Should be brushed on and worked into the material to ensure good adhesion. 		
	Chemical resistance	<ul style="list-style-type: none"> • Resistant to acids / caustic materials / alkalis. 		
	Toxicity	<ul style="list-style-type: none"> • Suitable for potted water when top coated with a potable water grade material. 		
TYPICAL LIQUID RESIN PROPERTIES	<u>Properties at 25°C</u>	<u>Method</u>	<u>Units</u>	<u>Value</u>
	Density	ASTM D792	g/ml	0.90
	Viscosity	ASTM D2196	cP	150-250
	Flash Point		°F	41
PROCESSING GUIDELINES	Coverage	400 square feet per gallon		
	Coating thickness	1.3 – 2.0 mils		
	Dry time	2 hours at 68°F (or 1 hour at 77°F)		
	Number of coats	1		
	Top coat	As soon as possible after drying. Preferably within 12 hours		
		<ul style="list-style-type: none"> a) This primer system is designed for use with MIR steel coating materials. b) This product has been optimally formulated. Do not add other additives. c) Follow application instructions for best results. d) Any surface contaminants will affect the primers adhesion. If in any doubt, please contact our technical service team. e) We only recommend applying this material between 60-105°F. Poor coverage and adhesion is likely if it is too cold or too hot when applying the material. 		

TYPICAL PROPERTIES	<p><u>Physical Properties</u></p> <table border="0"> <thead> <tr> <th style="text-align: left;"><u>Method</u></th> <th style="text-align: left;"><u>Units (SI)</u></th> <th style="text-align: left;"><u>Value</u></th> </tr> </thead> <tbody> <tr> <td>Flexural Elongation @ Break</td> <td>ASTM D790 %</td> <td>>30%</td> </tr> </tbody> </table> <p><u>Thermal Properties</u></p> <table border="0"> <tbody> <tr> <td></td> <td style="text-align: center;">°C</td> <td style="text-align: center;">-50°F - 350°F</td> </tr> </tbody> </table> <p>a) Properties are typical values based on standardized laboratory conditions. It is the responsibility of the end user to ensure that properties actually achieved are suitable for the intended use of the part.</p> <p>b) Successful applicators will follow the user instructions carefully to ensure contaminants do not affect the quality of the bond with the steel and subsequent MIR layers.</p>	<u>Method</u>	<u>Units (SI)</u>	<u>Value</u>	Flexural Elongation @ Break	ASTM D790 %	>30%		°C	-50°F - 350°F
<u>Method</u>	<u>Units (SI)</u>	<u>Value</u>								
Flexural Elongation @ Break	ASTM D790 %	>30%								
	°C	-50°F - 350°F								
SAFETY	<p>For industrial use only. Not for household use. Do not use this product unless you have read and understand the MSDS. This product is flammable. Keep away from sparks and sources of heat. Ground and bond all containers.</p> <p>Adequate ventilation is required with approved engineering controls and personal protective equipment.</p>									
STORAGE	<p>To ensure maximum stability and to retain the material's optimum properties the primer should be stored between 38-77°F in the original closed container.</p> <p>Keep closed when not in use.</p> <p>Storage areas should conform to local fire and building codes.</p> <p>Rotate stock on a first in, first out basis.</p> <p>It is never advisable to repeatedly open and close primers as they are easily contaminated. Mirteq therefore advises that users only buy as much as they need for a specific application and that they dispose of any primer that has been repeatedly opened and closed.</p>									
STANDARD PACKAGING	<p>55 gallon open top drum</p> <p>5 gallon pail</p>									
COMMERCIAL WARRANTY	<p>Shelf life is three months from the date of shipment, when stored in accordance with the storage conditions above. Extended storage or storage outside of recommended conditions may cause drift in viscosity and gel times.</p>									
NOTICE	<p>Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product violation of any patent or in violation of any law or regulation. It is the user's responsibility to determine for their self the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results obtained by using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.</p>									

Revision Date: 1 December 2014