



# Industrial Polymers Corporation **Primer 700**

Technical Data  
Revision date: 11/14

<b>DESCRIPTION</b>	Primer 700 is a high performance, two-component urethane primer system designed for use on concrete. By mixing in a 1:1 ratio by volume, bubble-free films can be produced up to 50 mil (1.3 mm) thick. Working times are adjustable by selective additions to the resin blend. It also exhibits a low sensitivity to substrate moisture, leaving a minimal bubbling when applied to damp surfaces.	
<b>FEATURES</b>	<ul style="list-style-type: none"> <li>• Concrete and wood primer for polyurethane and polyurea spray coatings.</li> <li>• Industrial flooring, roofing, decking, truck bed liners, pipeline and tank coatings.</li> <li>• Penetrates and seals the surface, leaving a smooth, pinhole and bubble-free coating.</li> <li>• Excellent adhesion to a variety of substrates.</li> <li>• Outstanding stability at low temperatures.</li> <li>• Working at different volume ratios offers a variety of stiffness and flexibility.</li> <li>• Primer may be applied on damp surfaces with no bubbles or foaming.</li> <li>• Flexibility to adjust the cure profile to match customer processes with the adjustment of catalyst.</li> <li>• Long work times (up to 45 minutes)</li> </ul>	
<b>APPLICATION</b>	<p>Surface must be properly prepared prior to application. This could entail scrubbing, high pressure detergent washing, steam cleaning or solvent wiping of the surface to remove dirt, oil, grease, pollutants and other contaminants. Allow the surface to thoroughly dry. Once dry, remove loose or excess mortar or other material that may work to impair adhesion.</p> <p>To prepare the system for application, mix the appropriate volume of materials together for approximately 2 minutes. At this point, a cloudy liquid will result which will eventually become clear and amber. Shortly thereafter, a slight exothermic will become noticeable and the mixture will increase in viscosity. The actual working time will depend on the temperature resin blend.</p> <p>Material can be applied by brush, roller or low pressure spray equipment. Ensure product is applied in an even and uniform manner, making sure recesses and edges are thoroughly coated.</p>	
<b>PHYSICAL PROPERTIES</b>	<p>Mix Ratio by Weight</p> <p>Mix Ratio by Volume</p> <p>Viscosity @ 72°F</p> <p>Color</p> <p>Finish</p> <p>Pot Life @ 72°F</p> <p>Dry Time @ 72°F</p> <p>Recoat time* @ 72°F</p> <p>*Dry time and recoat time depend on temperature and relative humidity</p> <p>Specific Gravity: (Part A)</p> <p>Specific Gravity: (Part B)</p> <p>Specific Gravity: (Mixed)</p> <p>Weight/Gallon Part A</p> <p>Weight/Gallon Part B</p> <p>Weight/Gallon Mixed</p> <p>Elongation</p> <p>Tensile Strength</p> <p>Theoretical Coverage</p> <p>Recommended Thickness</p> <p>Modulus of Elasticity</p> <p>Tear Strength</p> <p>Polyurea Top Coat Adhesion (elcometer)</p>	<p>100 parts A /82 parts B</p> <p>100 parts A /100 parts B</p> <p>45 cps</p> <p>Clear amber</p> <p>Gloss</p> <p>45 minutes</p> <p>4 hours</p> <p>2-24 hours</p> <p>1.17</p> <p>0.96</p> <p>1.06</p> <p>9.74 lbs.</p> <p>8.00 lbs.</p> <p>8.87 lbs.</p> <p>45%</p> <p>2,400</p> <p>1500 mil ft. /gal.</p> <p>3-5 mils.</p> <p>47,900 psi</p> <p>200 lb./in.</p> <p>&gt;500 psi</p>
<b>WORKING PROPERTIES</b>	<p>Tact Free:</p>	
<b>CLEAN UP</b>	Dispose of all empty Primer 700 component containers in accordance with local, state and federal regulations. Empty component containers can be rendered non-hazardous by rinsing the containers with a small amount of mixed material and allowing the solvents to evaporate. The containers will then contain non-hazardous cured urethane.	



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<b>STORAGE AND SHELF LIFE</b>	<p>The reaction of isocyanates with water leads to the formation of insoluble ureas and carbon dioxide gas which can result in pressure buildup inside closed containers. Therefore, extreme care must be taken to assure containers used for Primer 700 dry. Freshly manufactured Primer 700 Component A is a brown liquid. Sedimentation is usually due to contamination from atmospheric moisture or to dimer formation. The latter may occur on products with long storage times, typically over one year. Reaction from atmospheric moisture can be prevented by storing Primer 700 in carefully sealed containers under a dry nitrogen atmosphere. During handling, Primer 700 must also be protected from atmospheric moisture and water ingress, and containers must be carefully resealed after each sampling. Containers that have been contaminated with moisture should not be subsequently sealed; otherwise, a hazardous increase in pressure may result. Primer 700 is resistant to short-term exposure to low temperatures. However, low temperatures will result in increased viscosity, which makes handling more difficult. It is not advisable to store Primer 700 for long periods below 32° F (0°C). The recommended storage temperature for Primer 700 is 60 to 95° F (16-35°C). A small amount of finely divided insoluble solid in the liquid product does not usually cause difficulties in handling or product performance. However, if necessary, the liquid product may be filtered through a suitable in-line filter. It is suggested that the filter vessel be of stainless steel with a suitable polypropylene filter bag. The lines should be heated and brown clear with nitrogen after use.</p>
<b>SHIPPING CLASS</b>	