



AMERCOAT 182ZPK

Epoxy Zinc Phosphate Primer

Data Sheet: 182

Supersedes 07/99

Revised 05/08

Composition	Two-pack epoxy, polyamide cured, with rust inhibiting pigments which are chromate free and lead free.			
Uses and Properties	AMERCOAT 182ZPK is a two-pack epoxy zinc phosphate primer that may be used to prime abrasive-blast cleaned steel. It is designed for spray application and can provide adequate film thickness, hardness and protection for shop priming of structural steel. AMERCOAT 182ZPK can be recoated with a variety of coatings, without restriction on the recoat period. AMERCOAT 182ZPK applied as specified will protect steel for a period of months before topcoating.			
Typical Applications	Chemical Industry - Water & Sewage Installations - Refining Industry - Dairy Industry - Mineral Processing			
Typical Systems	Substrate	Surface Preparation	Typical Application	dft μm
	Structural Steel	Abrasive blast clean to AS1627.4 Class 2½ min.	1 st Coat: AMERCOAT 182ZPK 2 nd Coat: AMERCOAT CC24 3 rd Coat: ISO-FREE 977❶ <i>alternatively,</i> 1 st Coat: AMERCOAT 182ZPK 2 nd Coat: AMERLOCK 2K	100 - 125 100 - 125 40 - 50 75-100 150-200
	Mild Steel (Medium term protection)	Abrasive blast clean to AS 1627.4 Class 2	1 st Coat: Coat: AMERCOAT 182ZPK 2 nd Coat: AMERCOAT CC24 3 rd Coat: ISO-FREE 977❶	35-50 35-50 40-50
❶ Other top coats such as AMERCOAT 450N, LUSTERHANE 988, AMERLOCK 400 may be suitable depending on requirements.				

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<p>General Data</p> <p>Weathering</p> <p>Finish</p> <p>Chemical Resistance</p> <p>Solvent Resistance</p> <p>Abrasion Resistance</p> <p>Immersed Conditions</p> <p>Temperature Range</p> <p>Colour</p> <p>Top Coating</p>	<p>Excellent for a primer. Must be topcoated before deterioration.</p> <p>Eggshell.</p> <p>Neutral or mild alkaline splashing. Not intended for prolonged exposure.</p> <p>Resists splashing of oils, alcohols, hydrocarbons.</p> <p>Excellent. (For transport and erection.)</p> <p>Not normally recommended.</p> <p>Up to 105 °C (dry), 80 °C (wet).</p> <p>Red Oxide, Grey.</p> <p>AMERCOAT CC24, AMERCOAT 450N, AMERCOAT 450SGK, AMERLOCK 2K/400, LUSTERHANE 988, ISO-FREE 977 and most other top coats.</p>
<p>Application Data</p> <p>Covering Capacity (Theoretical)</p> <p>Volume Solids</p> <p>Drying Time (at 25°C)</p> <p>Recoating Time (at 25°C)</p> <p>Mixing Ratio</p> <p>Pot Life at 25 °C</p> <p>Thinner</p> <p>Handling</p> <p>Note:</p>	<p>4.3 square metres per litre at 125 µm dry film thickness. (Wet film thickness 230 µm). Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.</p> <p>54%.</p> <p>Touch dry in 1½ hours. Hard dry in 6 hours (approx.). Fully cured in 7 days. Will not cure at temperatures below 10 °C.</p> <p>May be recoated anytime after 8 hours provided surface is clean, dry and solvent free. <i>(N.B. Minimum recoating time is 24 hours at 10 °C.)</i></p> <p>4 parts Base to 1 part Hardener by volume.</p> <p>6 hours, shorter at higher temperatures.</p> <p>Spraying - 304 Thinner. Cleaning - 304 Thinner.</p> <p>Avoid contact with skin. The use of gloves is recommended. If splashed, wash thoroughly with soap and water. Provide forced ventilation if used in confined areas; wear respirators. The solvents are highly flammable. When applying by spray, material should be applied in a spray booth fitted with an effective exhaust system and the operator must wear a positive pressure air supplied respirator. Safety data sheets are available.</p> <p>After mixing Base and Hardener to a uniform consistency, the material should be allowed to stand for about 30 minutes before applying, longer periods if under 25°C. Application by conventional or airless spray thinning up to 25% with 304 Thinner. Apply by repeated wet on wet applications to required thickness. Clean equipment immediately after use.</p> <p><i>The figures quoted for pot life and drying/curing times after mixing the components are not definitive. They are dependent on job site conditions such as volume of mixed material, ambient and steel temperature variations, weather and ventilation, and influenced by the previous storage conditions.</i></p>

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