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**HUNTER PENROSE**

printing materials & equipment

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## PRODUCT INFORMATION

Product name	<b>Hydro-Coat Zinc</b>
Description	<p>Hydro-coat is a triple-metal zinc produced with a unique annealing and thermal flattening process which helps shape grain growth to ensure that the finished plate maintains a uniform flat character.</p> <p>Hydro-coat zinc is coated with a presensitised photo-resist which is developed with an ecologically-friendly aqueous developer.</p>
Applications	All chemical photo-engraving applications
Directions for use	<ol style="list-style-type: none"> <li>1. <b>Storage</b> Store Premium Zinc photoplates in a cool dry place</li> <li>2. <b>Artwork</b> Inspect negative carefully for opaque pinholes in the black areas. Pinholes result in pimply etching if not opaqued</li> <li>3. <b>Exposure</b> Expose using a Stouffer 21-step sensitivity guide to a solid step 8-10. Over-exposure can cause excessive shadow-dot plugging and does not increase etching resistance of the coating. Under-exposure causes wash-off in development and etching failure.</li> <li>4. <b>Development</b> Mix one part of heated or cold Hydro-coat developer with 5 parts of water. Heated Hydro-coat developer should be used at 41°C-46°C. Cold Hydro-coat developer can be used at room temperature 21°C-29°C. In case of evaporation loss, water alone should not be added back to the Hydro-coat developer solution. DO NOT add back concentrate Hydro-coat developer to compensate for evaporation loss. Heated developer should be changed when developing times exceed 90 seconds. Cold developer used in trays should be changed daily.</li> <li>5. <b>After development</b> Hydro-coat plates should be developed to enhance screen and fine line reproduction. Scrub horizontally and vertically using a wet litho pad. Follow with a clean water rinse and dry plate thoroughly using clean compressed air or by blotting with a clean, absorbent cloth.</li> <li>6. <b>Touch Up</b> Examine plate for flaws in the image areas retained on the plate and touch up as needs with Retouch Solution.</li> <li>7. <b>Weigh</b> Record initial plate weight prior to etching. Scales must be capable of weighing to the nearest 7 grams.</li> <li>8. <b>Descum</b> Descum Hydro-coat zinc plates using a solution of sulphuric and nitric acid. The recommended descum solutions are as follows:  <b>Solution 1</b>            3.4 litres water            350 ml concentrate Sulphuric Acid            30 ml Nitric Acid (42°Be)   <b>Solution 2</b>            3.4 litres water            760 ml Nitric Acid (42°Be)             These formulae will make 3.4 litres of each solution.</li> </ol>

	<p>Wipe the Solution 1 across the plate both horizontally and vertically, followed by Solution 2, with a final repeat of Solution 1. Use separate descum pads for each solution. Rinse between solution application.</p> <p><b>9. Rinse</b> Rinse plates thoroughly with water after descumming.</p> <p><b>10. Plate protector</b> An application of Express Guard Plate Protector is recommended prior to etching to enhance performance of the etching bath by preventing oxidation which can cause pimple.</p> <p><b>11. Etch</b> Etch plates according to recommendations of etching machine manufacturer.</p> <p><b>12. Replenish Bath</b> Record plate weight after etching to determine proper acid replenishment. Check dip gauge and restore proper level in bath by adding water or draining excess.</p>
Sizes available	<p>500 x 1000 x 3.00mm</p> <p>500 x 1000 x 1.63mm</p>
Tariff code	
Other information	
P.I. REF	