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HUNTER PENROSE

printing materials & equipment

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PRODUCT INFORMATION

Product name	Hydro-Coat Zinc
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"> 1. Storage Store Premium Zinc photoplates in a cool dry place 2. Artwork Inspect negative carefully for opaque pinholes in the black areas. Pinholes result in pimply etching if not opaqued 3. Exposure 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. 4. Development 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 use 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. 5. After development 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. 6. Touch Up Examine plate for flaws in the image areas retained on the plate and touch up as needs with Retouch Solution. 7. Weigh Record initial plate weight prior to etching. Scales must be capable of weighing to the nearest 7 grams. 8. Descum Descum Hydro-coat zinc plates using a solution of sulphuric and nitric acid. The recommended descum solutions are as follows: Solution 1 3.4 litres water 350 ml concentrate Sulphuric Acid 30 ml Nitric Acid (42°Be) Solution 2 3.4 litres water 760 ml Nitric Acid (42°Be) These formulae will make 3.4 litres of each solution.

	<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>9. Rinse Rinse plates thoroughly with water after descumming.</p> <p>10. Plate protector 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>11. Etch Etch plates according to recommendations of etching machine manufacturer.</p> <p>12. Replenish Bath 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	