

Acculac & Accupro

Water-Based Liquid Lamination



Liquid Lamination has emerged as a viable, cost effective option to film lamination (hot or cold systems with various film materials) and employs water-based, solvent or UV curable technologies.

In our experience, certain water-based inks, substrates and/or ink-substrate combinations do not work well with water-based coatings. For example, during coating, some dye-based inks on certain substrates give a “ghosting effect” not experienced with the same ink on other substrates. Conversely some inks, regardless of substrate type used, transfer certain colors into the coating liquid during the lamination process. Neschen Acculac and Accupro coatings are specially formulated to flash dry in seconds.

Compatible Substrates

Neschen coating liquids are able to coat most printed output on the market including inkjet, dye-sublimation, electrostatic, photographic, graphic arts, vehicle & fleet graphics, canvas, vinyl and film.

Coverage

One gallon of Acculac coats approximately 5000-6500 8”x10” prints or 3500 square feet of digital material, depending upon coating thickness, viscosity and substrate composition.

Application Speed & Drying

Water-based coatings will perform at any production speed. Application speed should be adjusted on the Accu-Coat laminator based upon ambient conditions (slower speeds at higher relative humidity) or based upon substrate requirements. Non-absorbent substrates (film) may require slower speeds to insure flash drying of the coating and to eliminate surface marring caused by contact with other prints. *Note:* Images can easily be re-coated to touch-up any imperfections. Very absorbent substrates may need to be coated more than once for proper protection.

Viscosity

Acculac coatings are available ready-to-use at an optimal viscosity range of 25-40 seconds with a #2 Zahn Cup. If the viscosity increases during long usage, simply add our Accu-Replenisher 500 solution or small amounts of water to return to the desired viscosity range. Acculac can also be thinned with distilled water.

pH Balance

Acculac coatings are manufactured to be pH stable, and have an optimal pH range of between 8.0 and 9.5. Addition of household ammonia (unscented) can be used to raise the pH if necessary.

Cure Response Time

Acculac coatings utilize proprietary internal cross-linking chemistry to provide maximum resistance properties. Acculac will be dry to the touch in seconds. Maximum moisture and scuff resistance will fully develop after 24 hours.

Shelf Life

Acculac coatings have shown no stability problems after one year of storage. Correct storage conditions are important factors in prolonging shelf life. Avoid freezing temperatures. If frozen, allow coating to return to room temperature before using. Shake well prior to use. Acculac 1000 Luster may exhibit some settling after prolonged storage. Simply shake well before use.

Cleaning Solutions

The recommended cleaning solution for removing hardened coatings is denatured alcohol, ammonia or household detergents.

WARNING: Do not use alcohol solutions on coated images.

Therefore, similar to film lamination, certain ink and substrate combinations can not be finished with liquid lamination. Neschen offers free test coating of sample images. We highly recommend the use of this free service, which allows you to actually see and feel the lamination effect on your own specific products before a purchase decision is made on liquid lamination.



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Application Guide

Applications	Acculac 1000	Acculac 1250	Acculac 1300	Acculac 1400	Accupro 3000
Canvas	✓	✓	✓	✓	✓
Card Stock	✓			✓	
Dye-Sublimation	✓	✓	✓	✓	✓
Fleet Graphics					✓
Inkjet	✓	✓	✓	✓	✓
Photographic Paper	✓	✓	✓	✓	
Post Card	✓			✓	

Product Range

Item #	Description	Finish	Size
5001001	Acculac 1000	Clear	1 Gallon
5001002	Acculac 1000	Luster	1 Gallon
5001251	Acculac 1250	Clear	1 Gallon
5001252	Acculac 1250	Luster	1 Gallon
5001253	Acculac 1250	Matte	1 Gallon
5001301	Acculac 1300	Clear	1 Gallon
5001302	Acculac 1300	Luster	1 Gallon
5001400	Acculac 1400	Clear*	1 Gallon
5003000	Accupro 3000	Clear*	1 Gallon
5005000	Accu-Replenisher 500	N/A	1 Gallon

* Product finish has a more glossy appearance than other Acculac clear products

Safety & Handling

Flash Point: 144° F – 1000 Series; 200° F – All other series
 Required Label: None
 Required Marking: None
 IMDG Packaging: None
 IMDG Stowage: None
 Uniform Fire Code (CFR 29): Class III-B

Storage Temperature: DO NOT FREEZE - 35° F
 Shelf Life: 1 Year
 HMIS Ratings: Health – 1, Flammability – 1, Reactivity - 0
 Cleanup Solvent: Water
 Shipping Description (CFR 40): Not Regulated Material

Contact your local distributor:



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