



## Carriage House Paper

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### DIRECTIONS FOR USE OF POWDER RETENTION AID

Carriage House Retention Aid is a cationic poly(amine) specifically manufactured for the retention of pigments, dyes and other fillers in paper pulp.

Please note that all pigments, dyes, and other chemicals should be handled with care. For more information as to the proper precautions in working with art materials, contact: Center for Occupational Hazards, 7 Beekman St., New York, NY 10038. The Center has several detailed publications on this important subject.

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#### **Use and Instructions:**

Retention Aid is used by first making a stock solution. This is then measured out for use and diluted further before adding to the pulp. The dry powder has an indefinite shelf life. The mixed solution is best used within one or two days, but will store longer under most conditions.

#### **Making stock solution:**

The stock solution is made by mixing the dry powder with water to make a concentrated solution. To allow the solution to mix properly, it is best to make it the night before it is needed, though in most circumstances a solution free of lumps can be made within an hour. The ratio of the powder to the water is 1/4 tsp. powder per 1 pt. of water. Slowly add the powder to the water while mixing, until all powder is into solution. If necessary, use a blender to break up the clumps.

#### **Use of stock solution:**

The stock solution must first be diluted with 1 gal. of water before it is added directly to the pulp to allow for even dispersion. Add your pigment to the pulp. Once you have the color you want, slowly begin adding the retention aid solution. Continue to add until the pigment is retained.

#### **Use with sizing:**

If you are using sizing, the order for mixing is: pigment, retention aid, sizing. Allow about 5 min. between steps for proper mixing.