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Example from ASA Sizing Guide

The ASA System

Components of an ASA System

- ASA – the size itself
- Cationic Liquid Starch – helps stabilize emulsion and retain size on the fibres
 or
- Cationic Cooked Starch - helps stabilize emulsion and retain size on the fibres
- Citric Acid – acidifies the starch and reduces ASA hydrolysis
- Alum or PAC – captures hydrolysed size, improves retention and drainage
- Retention Aids – helps retain the size
- ASA Emulsification Equipment
 - Emulsifier – emulsifies the ASA size in the starch
 - Manifold – directs the emulsion to different machines or plies
 - Alum Dosing System
 - Citric Acid Dosing System
 - Starch Feed
 - Heat Exchanger – cools cooked starch
- System Knowledge – knowledge of the paper machine, water systems, additives and requirements of the end product (paper or board)
- Wet End Operation – control of additives and possible interactions. Maintaining a clean machine.
- Application Knowledge – how to apply the ASA correctly

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