

### Sizings and Binders Overview

| <b>High Performance</b>                 |   |  |
|---|---|--|
| Hydrosize® HP-1621                      | Thermally Stable, Aqueous Solution, HAPS Free                 | Processable up to 500C without degradation, viscous solution                                     |
| Hydrosize® HP-1632                      | Thermally Stable, Aqueous Solution, HAPS Free                 | Processable up to 548C without degradation, highly viscous solution                              |
| Hydrosize® HP2-02                       | Small Particle Size Modified Phenoxy Dispersion               | FDA-approved, pH Stable, excellent adhesion, high Tg, x-linkable                                 |
| Hydrosize® HP3-02                       | Large Particle Size Modified Phenoxy Dispersion               | FDA-approved, pH Stable, good film integrity, excellent adhesion, high Tg, x-linkable            |
| <b>Binders</b>                          |   |  |
| U-Nyte™ Bond 101                        | Epoxy Powder  | High Tg, Excellent adhesive properties, thermoplastic, solvent soluble                           |
| U-Nyte™ Set 201                         | Reactive Epoxy Powder   | Higher Tg, Excellent adhesion, thermoset, solvent resistant                                      |
| U-Nyte™ Line 301                        | Proprietary Thermoplastic Resin                               | Continuous Fiber, for exact placement of binder, reduces waste                                   |
| <b>Polyolefin Dispersions</b>           |   |  |
| Hydrosize® PE1-01                       | Solvent Free, APE Free, Functionalized Polyethylene emulsion  | Excellent bond strength between fiber & polyethylene, antiblocking/release agent                 |
| Hydrosize® PP2-01                       | Solvent Free, APE Free, Functionalized Polypropylene emulsion | Good film integrity, excellent bond strength between fiber and polypropylene                     |
| Hydrosize® PP-2114                      | Solvent Free, APE Free, Functionalized Polypropylene emulsion | Improved film integrity, improved color, excellent bond strength between fiber and polypropylene |
| <b>Polyurethane Dispersions</b>         |   |  |
| Hydrosize® U1-01                        | Solvent Free, HAPS Free                                       | Excellent color stability, pH stable   |
| Hydrosize® U1-03                        | Phenoxy Modified Polyurethane                                 | Improved adhesion, higher modulus  |
| Hydrosize® U2-01                        | Solvent Free, HAPS Free                                       | Highest strength & modulus, excellent color, good color stability                                |
| Hydrosize® U4-01                        | Surfactant Free, Small Particle Size, HAPS free               | Improved thermal and hydrolytic stability  |
| Hydrosize® U5-01                        | Solvent Free, APE Free, HAPS Free                             | Improved thermal and hydrolytic stability, higher strength & elongation to break                 |
| Hydrosize® U7-01                        | Solvent free, HAPS free, APE free                             | Increased hydrolysis resistance  |
| Hydrosize® U10-01                       | Solvent Free, HAPS Free, Aqueous Solution                     | Replacement for epoxy sizings, water & styrene soluble, excellent lubricity                      |
| <b>Poly(Styrene Acrylate) Emulsions</b> |   |  |
| Hydrosize® SA-1502                      | Epoxy Functionalized Poly(Styrene Acrylate)                   | Good wet-out with styrene monomer, crosslinkable   |