



YT-6120 Flexible Water-Resistant Waterborne Polyurethane Resin

OVERVIEW

YT-6120 is a self-developed anionic waterborne polyurethane dispersion. It is eco-friendly and non-toxic, forms smooth films with high gloss, and offers excellent water resistance and flexibility. It is suitable for apparel fabric coatings and printing varnishes, and is specially designed for PVC waterborne reverse-print composite inks — delivering fast drying, excellent print fastness, fine image detail, good re-dissolution and strong hot-press lamination adhesion (150–180 °C).

KEY SPECS

Appearance	Transparent liquid	Solid content	35 ± 1%
pH value	6.0 – 8.0	Modulus	4.5 – 6.0 MPa
Viscosity (25 °C)	≤ 1000 mPa·s	Tensile strength	≥ 35 MPa
Elongation at break	≥ 500%	Water absorption (24 h, 25 °C)	< 3%

KEY FEATURES

- ✓ Pure waterborne, eco-friendly formulation
- ✓ Smooth film formation with high gloss
- ✓ Excellent water resistance and flexibility
- ✓ Fast-drying PVC reverse-print composite ink grade

APPLICATIONS

- ✓ Apparel fabric coatings
- ✓ Printing varnishes & gloss inks
- ✓ PVC waterborne reverse-print composite inks (fast-drying)

APPLICATION NOTES

For higher water resistance, add approximately 1–5% crosslinker; mix the two components thoroughly before use. Do not mix with adhesives of a different nature.

STORAGE

Store at 5–30 °C in a cool, dry, well-ventilated place; shelf life 12 months. Avoid freezing and direct light. Packaging 50 kg / 120 kg plastic drum