



YT-7010 Cationic Polyurethane Resin

OVERVIEW

YT-7010 is a waterborne cationic aliphatic polyurethane dispersion independently developed by our company. A colorless, transparent liquid, it is used as a pretreatment for waterborne pigment inkjet printing on light-colored cotton and polyester-cotton products. At low add-on levels it delivers sharp inkjet outlines and vivid colors, with excellent wash fastness, good rub fastness and a soft hand feel. This product contains no APEO and no formaldehyde.

KEY SPECS

Appearance	Colorless to pale yellow transparent liquid	Solid content	16 ± 1%
pH value	4 – 7	Ionic type	Cationic

KEY FEATURES

- ✓ Outstanding wash fastness
- ✓ Excellent rub fastness
- ✓ Vivid colors with sharp pattern outlines
- ✓ Suitable for baby products
- ✓ APEO-free with no formaldehyde release; meets EN71 heavy-metal requirements and passes RoHS

APPLICATIONS

- ✓ Pretreatment for waterborne pigment inkjet printing on light-colored cotton and polyester-cotton
- ✓ Sharp patterns and vivid colors at low add-on levels
- ✓ Soft hand feel with excellent wash and rub fastness

APPLICATION NOTES

Dilute with water (typically 1:19, adjustable), pad the textile to a wet pick-up of about 65%–75% and dry at 100–105 °C for about 3 minutes (drying above 110 °C may impair wash fastness — always pre-test if higher temperatures are required); after inkjet printing, cure at 150 °C for 3 minutes. Safety: ensure the fabric surface is clean before treatment; wear protective equipment and avoid direct body contact.

STORAGE

Store in a cool, dry, well-ventilated environment at 5–30 °C. Shelf life: 12 months. Avoid freezing and direct sunlight. Packaging 50 kg / 120 kg plastic drum