YT-616 Waterborne Polyurethane Resin

OVERVIEW

YT-616 is a waterborne anionic aliphatic polyurethane dispersion independently developed by our company. Eco-friendly and non-toxic, it delivers very good hardness (1H-2H) with excellent resistance to solvents, water and abrasion, and good adhesion to a wide range of substrates. It is widely used in coatings demanding high film hardness, for one-component cosmetics (nail polish), waterborne wood, metal, plastic and glass coatings.

KEY SPECS

Appearance	Blue-tinted transparent liquid	**Solid content**	35 ± 1%
pH value	6.0 – 8.0	**Film pencil hardness**	1 – 2H
Viscosity (30 °C)	≤ 150 mPa·s	**Water absorption (24 h, 25 °C)**	< 3%

KEY FEATURES

- ✓ Pure waterborne and eco-friendly with high film hardness and low-temperature film formation
- ✓ Smooth, slippery film with high-gloss effect
- ✓ Excellent water resistance and solvent resistance
- ✓ Eco-friendly emulsion — free of formaldehyde, nonylphenol, heavy metals, PAHs and DMF

APPLICATIONS

✓ High-hardness coatings ✓ Waterborne wood coatings
✓ Waterborne metal coatings ✓ Plastic and glass coatings ✓ Cosmetics (nail polish)

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