

Polyurethane Dispersion for Paint, Ink, Coating




# UCOAT US-230

## Product Features

UCOAT US-230 is a polyurethane dispersion with excellent durability and high elongation.

As a binder resin for water-based coatings and water-based inks, UCOAT US-230 improves toughness and other performance over conventional products.

## ●Film Properties and Light Resistance

		Urethane A	Urethane B	UCOAT US-230
Film properties	100% modulus(Mpa)	3	6	4
	Tensile strength(MPa)	40	50	50
	Elongation at break(%)	800	200	400
Light resistance	Appearance after light resistance test			
	Tensile strength retention rate (%) <sup>*1</sup>	11	98	103
	Elongation at break retention rate(%) <sup>*2</sup>	15	89	104

$$*1 \text{ Retention rate (\%)} = \frac{\text{Tensile strength after light resistance test}}{\text{Tensile strength before light resistance test}} \times 100$$

$$*2 \text{ Retention rate (\%)} = \frac{\text{Elongation at break after light resistance test}}{\text{Elongation at break before light resistance test}} \times 100$$

### <Evaluation method>

PUD was cast onto a tray and dried to obtain a film with a thickness of 200 μm. It was evaluated using a tensile testing machine and light resistance test was It was evaluated using a tensile testing machine and light resistance test was conducted at 80°C for 200 hours using a fade meter.

● **Applications**

Water-based coatings  
Water-based inks  
Water-based paintings, etc.

● **Typical Properties (These data aren't specifications.)**

Appearance	Opaque white liquid (Emulsion)
Solid content(%)	40
Viscosity(mPa · s)(25°C)	80
pH(of this product)	8.0

● **Storing Precautions**

Store in a sealed room in a ventilated environment.  
Storage temperature: 5-35°C

● **Packaging**

Net 18kg can  
Net 200kg drum

sample