

TECHNICAL DATA SHEET

KOTIAN Code: 2102**Polyester Acrylate**

Description

2102 is a difunctional polyester acrylate oligomer characterized by fast curing speed and low viscosity. This oligomer demonstrates self-wrinkling capability in screen-printable wrinkle effect inks, can be formulated as benzene-free and can replace TPGDA.

Basic physical properties

Appearance	Yellowish transparent liquid
Gardner (Fe-Co)	≤ 3
Viscosity (cps/25℃)	30-60 (NDJ-79 Viscometer)
Acid value (mg KOH/g)	≤2.0
Functionality	2
Refractive index (25℃)	1.476±0.005
Density(g/ml)	1.25±0.02
Packing specification (kg/plastic drum)	220

Suggested applications

UV bamboo and wood coatings, inks, adhesives, screen printing varnish.

Matters need attention

- The product should be stored in a cool, well-ventilated indoor area, tightly

sealed and protected from light and moisture.

- The product has a shelf life of 12 months at room temperature. Expired products may still be used after passing quality inspection.
- This product is classified as low toxicity. Avoid direct skin contact. In case of contact, rinse immediately with detergent and water.

Application examples

Recommended formula for Wood primer		Coating Process	
2101	10	Wood panel sanding → roller coating of primer (20g/m ²) → UV curing (120W/cm) → sanding → roller coating and curing of the second and third primer layers	
2202	15		
4212	25		
TPGDA	10	Film performance	
TMPTA	15	Curing speed	Good
PI 1173	5	Sandbility	Good
Talc Powder	20	Adhesion (Cross-cut Test, 3M tape)	100/100
Coating specifications			
Viscosity (cps/25℃)	900		
Solid content (%)	100		

Other related products

2202	Polyester Acrylate	Fast curing speed, good surface drying, good elasticity and good adhesion
4212	Epoxy Acrylate Blended with TPGDA 20%	Fast curing speed, good surface drying, high gloss