

KIMIA 750

Unsaturated Polyester Resin

- Stone Adhesive Production
- Amine Pre-promoted



LIQUID RESIN PROPERTIES

PROPERTY	VALUE / RANGE	UNIT	TEST METHOD
Viscosity (25°C)	400–600	cP	ASTM D2196
Solid Content	64–67	%	ISO 3251
Acid Value	15–22	mg KOH/g	ASTM D1639
Gel Time (25°C)*	3–7	min	ASTM D2471
Cure Time/Time to Peak	8–15	min	ASTM D2471
Peak Exotherm Temp.	120–145	°C	ASTM D2471
Specific Gravity	1.11–1.14	–	ASTM D1475
Color (Gardner)	Max 4	–	ASTM D1544
Shelf Life (Dark, <25°C)	12	Months	–

* Cured with 1.0% Cobalt Octoate (1%) and 1.5% MEKP at 25°C.

CURED MECHANICAL & THERMAL PROPERTIES

PROPERTY	VALUE	UNIT	TEST METHOD
Barcol Hardness	40–48	–	ASTM D2583
Tensile Strength	55–70	M Pa	ASTM D638
Tensile Modulus	3.2–3.8	G Pa	ASTM D638
Elongation at Break	1.2–2.0	%	ASTM D638
Flexural Strength	85–110	M Pa	ASTM D790
Flexural Modulus	3.2–3.7	G Pa	ASTM D790
HDT (Heat Deflection)	Max 70	°C	ASTM D648
Water Absorption (24 h)	Max 0.3	%	ASTM D570
Volumetric Shrinkage	6.0–7.5	%	ASTM D2566

APPLICATIONS

- Stone Adhesive Production
- Marble Adhesive Production
- Granite Adhesive Production
- Natural Stone Adhesive Production
- Engineered Stone Adhesive Production
- Quartz Stone Adhesive Production
- General-Purpose Stone Bonding Adhesives
- Fast-Curing Stone Adhesives
- Structural Stone Adhesives
- Stone Repair Adhesives
- Stone Installation Adhesives
- Professional and Industrial Stone Adhesive Formulations

