



# Epoxy Adhesives

Loxal Epoxy Adhesives are structural adhesives with high mechanical resistance. The 2k resins cure by mixing the two components (resin and hardener), usually at room temperature. The modified 2k epoxy resins are designed for applications that require flexible bonding and sealing. 1k epoxy resins are the highest performant adhesives as for mechanical, thermal and chemicals resistance, they cure by means of heating.

## SUBSTRATES:

- Metal, Composite, Glass, Ceramic, Wood, Stone, Plastic.

## BENEFITS:

- High mechanical resistance.
- Can bond different materials.
- Different curing times available.
- Heating shorten the curing process.
- Fill large gaps.
- Highly resistant against humidity and chemicals.
- Available in a full color range: from transparent for glass and design to black for carbon fiber.

	PRODUCT	COLOUR	VISCOSITY (+25°C Pa s)	HANDLING TIME (+25°C) MINUTES	FUNCTIONAL CURE TIME (+25°C)	SHEAR STRENGTH (ISO 4587) N/mm²	PEEL STRENGTH (ISO 4578) N/25 mm	DESCRIPTION
TWO-PART Viscosity = (1) Resin - (2) Hardener (*) Time detected on a 2 g total mass mixture A + B (**) With hot curing for 60 minutes at +80°C	31-10	AMBER	12-18 (1) / 10-25 (2)	90 - 150 (*)	12 - 24 h	12 - 14	10 - 25	Tough, 120 minutes.
	31-40	COLOURLESS	12-18 (1) / 15-30 (2)	10 - 20 (*)	30' - 40'	10 - 12	4 - 20	Tough, transparent, 15 minutes.
	31-42	COLOURLESS	12-18 (1) / 15-30 (2)	3 - 8 (*)	20' - 30'	12 - 14	4 - 20	Tough, transparent, 5 minutes.
	32-43	TRANSLUCENT	30-55 THIXO (1) / 50-80 THIXO (2)	5 - 10 (*)	10' - 20'	10 - 14	-	General purpose, fast curing even at low temperature.
	34-15	IVORY	20-35 (1) / 20-50 (2)	15 - 35 (*)	12 - 24 h	5 - 10	40 - 70	Tough and flexible, general purpose, impact resistant, 30 minutes.
	35-44	COLOURLESS	10-20 (1) / 14-24 (2)	10 - 20 (*)	40' - 60'	5 - 9	25 - 60	General purpose, tough and flexible, high peel resistant.
	36-10	AMBER	14-28 (1) / 10-25 (2)	90 - 150 (*)	12 - 24 h	12 - 18	25 - 40	Flexible and tough, 120 minutes.
	3636	GREY	50-100 THIXO (1) / 100-200 THIXO (2)	36 - 48 (*)	72 - 96 h	15 - 25	60 - 80	Tough, high viscosity, slow curing.
	4401	GREY	60-120 THIXO (1) / 50-100 THIXO(2)	10 - 15	24 - 36 h	20 - 30	150 - 300 (**)	Tough, high temperature.
	4428	BLACK	60-150 THIXO (1) / 100-200 THIXO (2)	10	24 - 36 h	18 - 22	150 - 200	Fast curing, high temperature, for composites bonding.
	4429	BLACK	50-80 THIXO (1) / 50-80 THIXO (2)	150	24 - 36 h	18 - 22	200	High viscosity, non-sag, slow curing, high temperature, for composites bonding.
HYBRID TWO-PART	EPOXSTIK	AMBER	PASTE	5 - 7	15' - 25'	4 - 6	-	Plastic putty designed for fast or emergency maintenance and repair.
	4807	GREY	15-25 THIXO (1) / 0.7-2 (2)	10 - 20	72 h	4 - 10	60 - 80	Maximum flexibility, for bonding together different materials.
	4820	BLACK	20-50 / 0,2-0,3	25 - 50	72 h	4 - 7	-	Self-levelling, maximum flexibility, general purpose.
	4821	BLACK	PASTE THIXO	10 - 15	72 h	4 - 7	60 - 80	High viscosity, maximum flexibility, general purpose.
	4826	IVORY	PASTE THIXO	-	72 h	1-2	-	Self-extinguishing, thermal conductive, high temperature.

	PRODUCT	COLOUR	VISCOSITY (+25°C Pa s)	HANDLING TIME AT + 150°C MINUTES	SHEAR STRENGTH (ISO 4587) N/mm²	PEEL STRENGTH (ISO 4578) N/25 mm	TEMPERATURE RANGE °C	DESCRIPTION
SINGLE-PART (*) Curing time depends on temperature	4500	GREY	800 - 3800 THIXO	30 - 45 (+)	20 - 30	80 - 120	-40 +180	Tough, high viscosity, for vertical bonding, high performances.
	4580	GREY	150 - 250 THIXO	45 - 60 (+)	18 - 25	80 - 120	-40 +180	Tough, self-levelling, fluidify while curing.
	4620	WHITE	15 - 30	30 - 45 (+)	18 - 25	-	-40 +180	Fluid, tough, self-levelling.
	4680	IVORY	60 - 100	15 - 30 (+)	20 - 25	-	-40 +180	High impact strength, fluidify while curing for ferrites and magnets.
	4690	BLACK	200 - 300 THIXO	45 - 60 (+)	18 - 25	80 - 150	-40 +180	Tough, non-sag, high performances.
	4700	AMBER	8 - 12	60-90 (a+90°C)	15 - 25	-	-40 +180	Self-levelling, cure at low temperature.
	4780	BLACK	400 - 600 THIXO	30 - 45 (+)	15 - 25	-	-40 +180	High viscosity, thermal conductive.