

# Bonding – Cyanoacrylate Adhesives

Technology from Henkel Corporation has made the productivity promises of cyanoacrylate adhesives (instant adhesives) a reality with the industry's widest selection of high-performance, application-specific, instant adhesives. Loctite® brand instant adhesives are available in a variety of viscosities, cure speeds, gap-filling capabilities, and substrate compatibilities. The ultra high-performance Loctite® Prism® family offers additional products that surpass the most stringent demands, including toughened formulations, low odor and low blooming products, and surface insensitive and thermally resistant formulations.



## SURFACE INSENSITIVE

### LOCTITE® 401™ PRISM® INSTANT ADHESIVE

#### General purpose

Designed for the assembly of difficult-to-bond materials which require uniform stress distribution. Particularly suited for bonding a wide range materials, including metals, plastics, and elastomers.



## TOUGHENED

### LOCTITE® 380™ BLACK MAX® INSTANT ADHESIVE

The original elastomer-modified instant adhesive. Bonds metal, rubber, and plastic. Excellent peel, impact and shear strength.



### LOCTITE® 454™ PRISM® INSTANT ADHESIVE

#### Porous Surfaces

Designed for the assembly of difficult-to-bond materials which require uniform stress distribution. Particularly suited for bonding porous or absorbent materials.



## GENERAL PURPOSE

### LOCTITE® 495™ SUPER BONDER® INSTANT ADHESIVE

Designed to bond rubber, metal, and plastic parts with gaps to 0.004".



# Loctite® Brand Instant Adhesives Properties Chart

PRODUCT	Item Number	Container	TYPICAL USE	COLOR	GAP FILL	CATEGORY	VISCOSITY (cP)	SHEAR STRENGTH* (PSI)	TEMPERATURE RANGE	CURE SPEED**	SPECIFIC GRAVITY	AGENCY APPROVALS	
SURFACE INSENSITIVE	401™ Prism® 	231472 235144	20 g bottle 1 lb. bottle	General purpose	Clear	0.005"	Surface insensitive Ethyl	110	3,200	-65°F to 180°F	Fixture – 15 sec. Full – 24 hrs.	1.05	CFIA
	406™ Prism® 	231474 40661	20 g bottle 1 lb. bottle	Wicking grade	Clear	0.004"	Surface insensitive Ethyl	20	3,200	-65°F to 180°F	Fixture – 15 sec. Full – 24 hrs.	1.05	Commercial item std. A-A-3097
	454™ Prism® 	21925 45440 45474 45478	10 g syringe 20 g tube 200 g tube 300 g cartridge	Porous surfaces	Clear	0.010"	Surface insensitive Ethyl	Gel	3,200	-65°F to 180°F	Fixture – 15 sec. Full – 24 hrs.	1.05	CFIA, ABS
LOW ODOR /LOW BLOOM	403™ Prism® 	40340 40361	20 g bottle 1 lb. bottle	Gap filling	Clear	0.008"	Low odor/low bloom Alkoxy	1,000	2,600	-65°F to 160°F	Fixture – 50 sec. Full – 24 hrs.	1.10	N/A
	460™ Prism®	46040 287449	20 g bottle 1 lb. bottle	Close fitting parts	Clear	0.004"	Low odor/low bloom Alkoxy	45	2,600	-65°F to 160°F	Fixture – 50 sec. Full – 24 hrs.	1.10	N/A
TOUGHENED	380™ Black Max® 	38050 38061	1 oz. bottle 1 lb. bottle	Close fitting parts	Black	0.006"	Toughened Ethyl	300	3,750	-65°F to 225°F	Fixture – 90 sec. Full – 24 hrs.	1.10	CFIA
	480™ Prism® 	48040 48061	20 g bottle 1 lb. bottle	General filling	Black	0.006"	Toughened Ethyl	200	3,800	-65°F to 180°F	Fixture – 90 sec. Full – 24 hrs.	1.10	NSF/ANSI 61
	410™ Prism®	41045 41061	20 g bottle 1 lb. bottle	Gap filling	Black	0.008"	Toughened Ethyl	3,500	3,200	-65°F to 225°F	Fixture – 90 sec. Full – 24 hrs.	1.07	CFIA
	411™ Prism®	298119 41161	20 g bottle 1 lb. bottle	Clear gap filling	Clear	0.008"	Toughened Ethyl	5,000	3,200	-65°F to 180°F	Fixture – 30 sec. Full – 24 hrs.	1.07	N/A
	435™ Prism®	41814	20 g bottle	Shock resistance	Clear	0.002"	Toughened Ethyl	170	2,175	-65°F to 250°F	Fixture – 40 sec. Full – 24 hrs.	1.10	N/A
	438™ Prism®	41815	20 g bottle	Shock resistance	Black	0.002"	Toughened Ethyl	170	2,175	-65°F to 250°F	Fixture – 40 sec. Full – 24 hrs.	1.10	N/A
THERMALLY RESISTANT	4204™ Prism®	26324 26325	20 g tube 1 lb. bottle	Gap filling	Clear	0.008"	Thermally resistant Ethyl	4,000	2,100	-65°F to 250°F	Fixture – 30 sec. Full – 24 hrs.	1.10	N/A
	4210™ Prism® 	19758 19759	20 g bottle 1 lb. bottle	Close fitting parts	Black	0.005"	Thermally resistant Ethyl	160	3,600	-65°F to 250°F	Fixture – 120 sec. Full – 24 hrs.	1.10	CFIA
GENERAL PURPOSE	382™ Tak Pak®	20420 38240 38261	20 g kit † 20 g bottle 1 lb. bottle	Tak Pak® ultra-performance wire tacking	Clear	0.008"	General purpose Ethyl	5,000	3,200	-65°F to 180°F	Fixture – 30 sec. Full – 24 hrs.	1.05	N/A
	415™ Super Bonder®	243319 41561	1 oz. bottle 1 lb. bottle	Gap filling metal bonder	Clear	0.008"	General purpose Methyl	1,500	3,600	-65°F to 180°F	Fixture – 30 sec. Full – 24 hrs.	1.09	Commercial item std. A-A-3097
	416™ Super Bonder®	186981 41661	1 oz. bottle 1 lb. bottle	Gap filling plastic bonder	Clear	0.008"	General purpose Ethyl	1,500	3,200	-65°F to 180°F	Fixture – 30 sec. Full – 24 hrs.	1.05	CFIA, Commercial item std. A-A-3097
	420™ Super Bonder®	186978 42061	1 oz. bottle 1 lb. bottle	Wicking type plastic bonder	Clear	0.002"	General purpose Ethyl	2	2,900	-65°F to 180°F	Fixture – 20 sec. Full – 24 hrs.	1.05	Commercial item std. A-A-3097
	422™ Super Bonder®	42250 42261	1 oz. bottle 1 lb. bottle	Gap filling plastic bonder	Clear	0.008"	General purpose Ethyl	2,500	3,200	-65°F to 180°F	Fixture – 30 sec. Full – 24 hrs.	1.09	CFIA, Commercial item std. A-A-3097
	495™ Super Bonder® 	49595 231478 49561	0.07 fl. oz. Gluematic® Pen 1 oz. bottle 1 lb. bottle	General purpose	Clear	0.004"	General purpose Ethyl	45	2,750	-65°F to 180°F	Fixture – 20 sec. Full – 24 hrs.	1.05	Commercial item std. A-A-3097, ABS
	496™ Super Bonder® 	49650 49661	1 oz. bottle 1 lb. bottle	General purpose rubber bonder	Clear	0.006"	General purpose Methyl	125	3,600	-65°F to 180°F	Fixture – 30 sec. Full – 24 hrs.	1.09	Commercial item std. A-A-3097
	498™ Super Bonder®	49850 49861	1 oz. bottle 1 lb. bottle	Thermal cycling adhesive	Clear	0.007"	General purpose Ethyl	500	3,000	-65°F to 180°F	Fixture – 50 sec. Full – 24 hrs.	1.10	N/A
FLEXIBLE	4851™ Prism® 	37732 37733	20 g bottle 1 lb. bottle	Flexible	Clear	0.006"	Flexible Alkyl	400	2,175	-65°F to 212°F	Fixture – 20 sec. Full – 24 hrs.	1.10	ISO 10993
	4861™ Prism® 	37708 37711	20 g bottle 1 lb. bottle	Flexible	Clear	0.008"	Flexible Alkyl	4,000	2,465	-65°F to 212°F	Fixture – 20 sec. Full – 24 hrs.	1.10	ISO 10993

\* Grit blasted steel.

\*\* Varies with substrates.

† Contains Loctite® 444™ Tak Pak® Instant Adhesive (20 g bottle).

Loctite® 7452™ Tak Pak® Accelerator (0.7 oz. net wt. aerosol can).

A complete line of surface primers, accelerators and cleaners are available to further enhance the performance of Loctite® brand instant adhesives. Refer to the Surface Preparation section.



Indicates worldwide availability.



Indicates TOP CHOICE products.