Epoxy Adhesives

Your Application

- Bond a wide variety of materials, such as metal, ceramic and plastic
- Available in a variety of formulations and performance capabilities, including fast cure, superior moisture resistance, ease of dispense, high toughness, and a resistance to a wide range of chemicals

DO YOU NEED A ONE-PART OR TWO-PART EPOXY?

Two-Part

Do you need the product to fixture in less than 15 minutes at room temperature?

Yes

- **Moisture Resistant** → EA E-05MR™
- **Flexible** → EA E-05CL™
- **Non-Sag** → EA E-00NS™

No

Potting (for more potting options, see page 97)

- **Clear** → EA E-30CL™
- **Explosion Proof** → EA E-40EXP™
- **Non-Corrosive** → EA E-60NC™

Solution

	EA E-05MR™	EA E-05CL™	EA E-00NS™	EA E-30CL™	EA E-40EXP™	EA E-60NC™
Color	Clear	Clear	Translucent	Clear	Black	Black
Viscosity (cP)	25,000	2,500	100,000	10,000	24,000	8,000
Mix Ratio	1:1	1:1	1:1	2:1	2:1	1:1
Work Life (minutes)	5	5	3	30	40	60
Fixture Time (minutes)	15	15	10	>180	N/A	180
Room Temperature Cure Time (hours)	24	24	24	24	24	24
Shear Strength[1] (psi)	3,360	1,430	1,600	3,100	3,000[2]	2,630
Temperature Resistance	250°F (121°C)	180°F (80°C)	180°F (82°C)	250°F (121°C)	250°F (121°C)	250°F (121°C)

Product Description

LOCTITE® EA E-05MR™ Adhesive

Moisture Resistant

Clear, fast fixturing epoxy that provides excellent moisture resistance and exceptional toughness.

P/N	Package Size
1086598	50 ml dual cartridge
1086599*	400 ml dual cartridge
1087602*	5 gallon pail, resin
1087603*	5 gallon pail, hardener

LOCTITE® EA E-05CL™ Adhesive

Flexible

A clear, flexible, high peel, low odor epoxy with a 3-minute work life.

P/N	Package Size
29299	50 ml dual cartridge
29301	400 ml dual cartridge
29302*	46 lb. pail
29303*	46 lb. pail

LOCTITE® EA E-00NS™ Adhesive

Non-Sag

A fast fixturing, thixotropic, non-sag epoxy which cures at room temperature to form a translucent, rigid and machinable bondline. Well suited for use on vertical surfaces.

P/N	Package Size
29294	50 ml dual cartridge
29295	200 ml dual cartridge
29296	400 ml dual cartridge

LOCTITE® EA E-30CL™ Adhesive

Clear

An ultra-clear, low viscosity, impact resistant epoxy with a 30-minute work life. An excellent glass bonder. Exhibits exceptional chemical resistance.

P/N	Package Size
29329	50 ml dual cartridge
29330	200 ml dual cartridge
29331	400 ml dual cartridge

LOCTITE® EA E-40EXP™ Adhesive

Explosion Proof/ Chemical Resistant

An epoxy designed for potting electrical motors used in hazardous locations. Compliant with UL-674 for explosion-proof electric motors. Excellent chemical resistance.

P/N	Package Size
1511653	200 ml dual cartridge
1511896	5 gallon pail - part A
1511897	5 gallon pail - part B

LOCTITE® EA E-60NC™ Adhesive

Noncorrosive/ Potting

An electronics-grade potting compound with a 60-minute work life. Black, opaque, low viscosity with excellent cure-through depth.

P/N	Package Size
29324	50 ml dual cartridge
29325	200 ml dual cartridge
29326	400 ml dual cartridge
29327*	47 lb. pail, resin
29328*	40 lb. pail, hardener

* Made-to-order item.
[1] Grit blasted steel.
[2] Aluminum.

One-Part

High Toughness

Short Work Life	Medium Work Life	Long Work Life	Flexible	Ultra-Toughened	High Toughness	General-Purpose
EA E-20HP™	EA E-60HP™	EA E-120HP™	EA E-90FL™	EA E-30UT™	TEROSON® EP 5089™	EA E-214HP™
Off-White	Off-White	Amber	Opaque Grey	Purple	Purple	Yellow
30,000	45,000	30,000	40,000	65,000	100,000	Paste
2:1	2:1	2:1	1:1	2:1	N/A	N/A
20	60	120	90	30	N/A	N/A
120	240	180	>180	180	N/A	N/A
24	24	24	24	24	20 min. @ 350°F (177°C)	2 @ 302°F (150°C)
3,270	4,320	4,300	810	4,200	2,900	4,820
250°F (121°C)	250°F (121°C)	250°F (121°C)	250°F (121°C)	250°F (121°C)	350°F (177°C)	300°F (149°C)

LOCTITE® EA E-20HP™ Adhesive

High Performance

A high strength epoxy with a 20-minute work life. Off-white, toughened, high peel, high shear.

P/N	Package Size
29314	50 ml dual cartridge
29315	200 ml dual cartridge
29316	400 ml dual cartridge
29317	46.5 lb. pail, resin
29318	48 lb. pail, hardener

LOCTITE® EA E-60HP™ Adhesive

A high strength epoxy with a 60-minute work life. Off-white, high peel, high shear.

P/N	Package Size
29319	50 ml dual cartridge
29321	400 ml dual cartridge
29322*	43 lb. pail, resin
29323*	42 lb. pail, hardener

LOCTITE® EA E-120HP™ Adhesive

An amber, non-sag, aerospace grade epoxy with an extended open time to allow for the adjustment of large parts.

P/N	Package Size
29353	50 ml dual cartridge
29354	200 ml dual cartridge
29355	400 ml dual cartridge
29356*	44 lb. pail, resin
29357*	40 lb. pail, hardener

LOCTITE® EA E-90FL™ Adhesive

Flexible

A grey, impact-resistant, toughened epoxy with a 90-minute work life.

P/N	Package Size
29309	50 ml dual cartridge
29311	400 ml dual cartridge

LOCTITE® EA E-30UT™ Adhesive

Ultra-Tough

An epoxy that provides exceptional fracture toughness characteristics for the most demanding structural bonding requirements.

P/N	Package Size
1078234	50 ml dual cartridge

TEROSON® EP 5089™

High Performance

A toughened heat curable epoxy offering high shear strength and extremely good peel and impact resistance. Can be spot-welded through and is compatible with most paint bake processes.

P/N	Package Size
1182757	300 ml cartridge
1182761	5 gal. pail
1182927	55 gal. drum

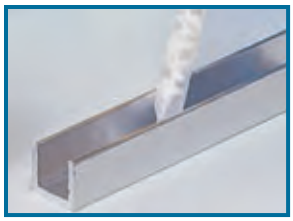
LOCTITE® EA E-214HP™ Adhesive

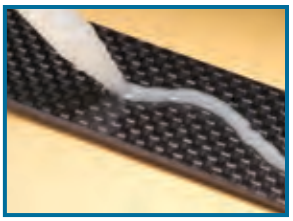
General-Purpose/ Heat Cure

A one-component, acid-free, heat cure epoxy. Light grey, temperature resistant, high strength, non-sag. Noncorrosive to sensitive parts.

P/N	Package Size
29339	30 ml cartridge
29340	300 ml cartridge

Epoxy Adhesives





LOCTITE® Epoxy Adhesive Properties Chart

	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	FEATURES	COLOR	VISCOSITY (cP)	MIX RATIO	WORK LIFE[3] (minutes)	FIXTURE TIME (minutes)	CURE TIME (hours)	SHEAR STRENGTH[1] (psi)	TEMPERATURE RESISTANCE
HIGH PERFORMANCE	EA 1C™	1373425 1377344 1377777 1377391	EPK 4 oz. kit 17 lb. kit 60 lb. pail, resin 43 lb. pail, hardener	Gap Filling	Off-White	350,000	2.5:1	20	210	24	1,500[2]	250°F (121°C)
	EA 0151™	83176 83069 83179	EPK 3.3 oz. kit 50 ml "A" dual cartridge 2.6 lb. kit	Extended Work Life	Clear	60,000	2.7:1	60	>180	24	2,675	160°F (71°C)
	EA 9340™	83104 83105	EPK 2.7 oz. kit 5 lb. kit	Non-Sag	Grey	Paste	1:1	90	>180	24	2,300[2]	>180°F (82°C)
	EA 9430™	83114 83113	2 lb. kit 10 lb. kit	Impact Resistant	Off-White	12,000	3.78:1	50	>180	24	4,230	180°F (82°C)
	EA 9460™	83129 83128 83127 83131 83130 83133 83134	50 ml "A" dual cartridge 200 ml "C" dual cartridge 400 ml "C" dual cartridge 5 lb. kit 20 lb. kit 50 lb. pail, hardener 50 lb pail, resin	Non-Sag	Grey	200,000	1:1	50	>180	24	3,500[4]	250°F (121°C)
	EA 9462™	83142	50 ml "A" dual cartridge	High Strength	Beige	70,000	1:1	55	>180	24	4,180	250°F (121°C)
	EA E-20HP™	29314 29315 29316 29317 29318	50 ml "A" dual cartridge 200 ml "C" dual cartridge 400 ml "C" dual cartridge 46.5 lb. pail, resin 48 lb. pail, hardener	Easy Mix, Toughened	Off-White	30,000	2:1	20	120	24	3,270	250°F (121°C)
	EA E-20NS™	29334 29335 29336	50 ml "A" cartridge 200 ml "C" dual cartridge 400 ml "C" dual cartridge	Low Sag	Tan	60,000	2:1	20	150	24	2,790	250°F (121°C)
	EA E-30CL™	29329 29330 29331	50 ml "A" dual cartridge 200 ml "C" dual cartridge 400 ml "C" dual cartridge	Medium Work Life, Chemical Resistant	Clear	10,000	2:1	30	>180	24	3,100	250°F (121°C)
	EA E-30UT™	1078234	50 ml "A" dual cartridge	Ultra-Tough	Purple	65,000	2:1	30	180	24	4,200	250°F (121°C)
	EA E-40EXP™	1511653 1511896 1511897	200 ml "C" dual cartridge 5 gallon pail, part A 5 gallon pail, part B	Extended Work Life	Black	24,000	2:1	40	N/A	24	3,000	250°F (121°C)
	EA E-40FL™	29304 29305 29306	50 ml "A" dual cartridge 200 ml "C" dual cartridge 400 ml "C" dual cartridge	Medium Fixture	Opaque Grey	70,000	1:1	40	180	24	640	250°F (121°C)
	EA E-40HT™	1086065 1086081	50 ml "A" dual cartridge 400 ml "C" dual cartridge	High Strength	Off-White	430,000	2:1	40	180	24	4,030	300°F (149°C)
	EA E-60HP™	29319 29321 29322* 29323*	50 ml "A" dual cartridge 400 ml "C" dual cartridge 43 lb. pail, resin 42 lb. pail, hardener	High Performance	Off-White	45,000	2:1	60	>180	24	4,320	250°F (121°C)
	EA E-60NC™	29324 29325 29326 29327* 29328*	50 ml "A" dual cartridge 200 ml dual cartridge 400 ml "C" dual cartridge 47 lb. pail, resin 40 lb. pail, hardener	Extended Work Life, Noncorrosive	Black	8,000	1:1	60	>180	24	2,630	250°F (121°C)
	EA E-90FL™	29309 29311	50 ml "A" dual cartridge 400 ml "C" dual cartridge	Extended Work Life	Opaque Grey	40,000	1:1	90	>180	24	810	250°F (121°C)
	EA E-120HP™	29353 29354 29355 29356* 29357*	50 ml "A" dual cartridge 200 ml "C" dual cartridge 400 ml "C" dual cartridge 44 lb. pail, resin 40 lb. pail, hardener	High Temperature/ Chemically Resistant	Amber	30,000	2:1	120	>180	24	4,300	N/A

ITEMS IN RED = *Source's* PICK or NEW

* Made-to-order item.
[1] Grit-blasted steel.
[2] Etched aluminum.
[3] Work life = time for viscosity to double; Working time = maximum time before assembly (steel).
[4] Block Sheer – grit-blasted mild steel.