

LOCTITE liquid epoxy metals



Sample order:

nIm 97990-3471500

Safety:

Visit our website to see the safety and technical data.



Repairs using
epoxy liquid metal

Description:

LOCTITE metal set liquid metals are steel or aluminium-based epoxy resins. They set new standards in repairs: great strength, very good adhesion, no shrinkage, resistant to most solvents and lubricants. After hardening they can be worked like metal by hand or machine and can be painted over. Cracks, porous spots, faulty holes or damage to pipes, tanks, chassis and machine parts can be quickly and durably repaired using LOCTITE metal set products. They adhere well to metals, glass, ceramics and other materials.

Type S1 – 97990-3471500

Suitable as filler. Steel based, two-component epoxy adhesive that is used to repair and reproduce damaged and worn parts.

Type S2 – 97990-3472500

Suitable for casting. Steel based, two-component epoxy adhesive that is used to repair and reproduce damaged and worn parts.

Type M – 97990-3474500

Suitable for filling. Mineral based, two-component epoxy adhesive that, after hardening forms a self-lubricating surface that reduces the wear on moving parts. The product is easy and practical to use and finds application in workshops or by maintenance work directly on site.

Order No.	Container	Intern. Ident. No.	Product	Mixture ratio	Handling strength in min.	Temperature resistance
97990-3471500	pair of cans, 500 g	3471	metal-Set S1	1:1	180	-20 °C – +120 °C
97990-3472500	pair of cans, 500 g	3472	metal-Set S2	1:1	180	-20 °C – +120 °C
97990-3474500	pair of cans, 500 g	3474	metal-Set M	1:1	180	-20 °C – +120 °C

LOCTITE liquid epoxy metals



Sample order:

nIm 97990-3450025

Safety:

Visit our website to see the safety and technical data.



Repairs using
epoxy liquid metal

Twin syringe – Epoxy-liquid metal 97990-3450025

Two-component epoxy adhesive that after mixing quickly hardens at room temperature. The adhesive has a high strength on metal surfaces. The gap filling ability makes this adhesive ideal for use on rough and badly fitting faces made from metal, ceramic, thermoset or wood.

The twin syringes automatically guarantee the correct mix ratio.

Order No.	Container	Intern. Ident. No.	Product	Mixture ratio	Handling strength in min.	Temperature resistance
97990-3450025	25 ml	3450	twin syringe	1:1	15	-55 °C – +100 °C

LOCTITE threadlocker



Sample order:

nIm 97990-2220050

Note:

LOCTITE threadlocker mid-strength, 97990-243... has a PW recommendation from the German Federal Ministry of Health in the D2 sealant joints industry based on an inspection carried out by the DVGW Research Institute: suitable for use in the foodstuffs and potable water industries.

* Values break-away torque acc. to ISO 10964.

Safety:

Visit our website to see the safety and technical data.

Description:

For use with all screw connections. Applied as a liquid, it hardens in the absence of air and on contact with metal after being screwed into the thread.

LOCTITE threadlocker low-strength, 97990-222....

To secure set and adjustment screws up to thread size M36. Even parts with a high length to diameter ratio can be loosened again. Prevents corrosion. Good vibration resistance. Easy to remove and adjust.

Temperature-resistant from -55 °C to +150 °C.

LOCTITE threadlocker mid-strength, 97990-243....

To lock and seal threaded connections up to M36. Also hardens on lightly oiled surfaces. Resists loosening by vibration. Can be loosened again with standard tools.

Temperature-resistant from -55 °C to +180 °C.

PW recommended.

LOCTITE threadlocker high-temperature, 97990-2720050

Provides high-strength locking of threaded connections for thread sizes up to M36.

Temperature resistant up to 200 °C. Easily applied due to thixotropic components.

Temperature-resistant from -55 °C to +200 °C.

LOCTITE threadlocker capillary, 97990-290....

Locks and seals by capillary action when applied subsequently, e.g. by already tightened threads or in porosities and cracks. Secures pre-mounted bolts against vibration and loss of tension. For connections up to M8.

Temperature-resistant from -55 °C to +155 °C.

LOCTITE threadlocker high-strength, 97990-2701...

To secure and seal threaded connections up to M20, which no longer have to be loosened.

Resists loosening by vibration under high dynamic load. The product is also suitable for high-strength fastening connections. Can only be removed after heating to 300 °C.

Temperature resistant from -55 °C to +150 °C



Thread lock

Order No.	Container	Intern. Ident. No.	Hardening system	Viscosity m Pa · s	Handling strength in min.	Ultimate hardness in hours	Break-away torque Nm	Thread size
97990-2220010	10 ml bottle	222	anaerobic	900-1500	15	12	6	≤M36
97990-2220050	50 ml bottle	222	anaerobic	900-1500	15	12	6	≤M36
97990-2430010	10 ml bottle	243	anaerobic	1300-3000	10	12	26	≤M36
97990-2430050	50 ml bottle	243	anaerobic	1300-3000	10	12	26	≤M36
97990-2720050	50 ml bottle	272	anaerobic	4000-15000	40	12	23	≤M36
97990-2900010	10 ml bottle	290	anaerobic	20-55	20	12	10	M6
97990-2900050	50 ml bottle	290	anaerobic	20-55	20	12	10	M6
97990-2701010	10 ml bottle	2701	anaerobic	500-900	10	12	38	≤M20
97990-2701050	50 ml bottle	2701	anaerobic	500-900	10	12	38	≤M20

LOCTITE universal adhesive



Sample order:

nIm 97990-4010050

Safety:

Visit our website to see the safety and technical data.

Description:

These adhesives bond metals, rubber, plastics and other materials with and to each other. Bonds strongly in a few seconds.

LOCTITE instant adhesive universal (cyanoacrylate), 97990-401....

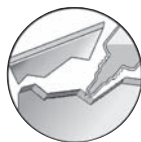
This adhesive bonds the most varied material mixtures (metals, plastics, leather, rubber, wood, cardboard, ceramics, etc.) and achieves great strength by small gaps. Temperature-resistant from -40 °C to +120 °C.

LOCTITE instant adhesive universal gel (cyanoacrylate), 97990-454....

This gel adhesive can be applied exactly where required, with no running and no drips, even on vertical surfaces. Bonds different materials, even porous materials. Good gap-filling capacity. Temperature-resistant from -40 °C to +120 °C.

LOCTITE instant adhesive for plastic and rubbers, 97990-4060770

The combination for plastics, contact adhesive 406 (cyanoacrylate) and the primer 770 for difficult to bond plastics e.g. polyethylene (PE) and polypropylene (PP). Temperature-resistant from -40 °C to +120 °C.



Bonding different materials

Order No.	Container	Intern. Ident. No.	Hardening system	Viscosity m Pa · s	Handling strength in sec.	Ultimate hardness in hours	Adhesion gap in mm
97990-4010020	20 g bottle	401	air humidity	100	3-10	12	0,05-0,1
97990-4010050	50 g bottle	401	air humidity	100	3-10	12	0,05-0,1
97990-4060770	20/10 g set	406/770	air humidity	20	2-10	12	0,05-0,1
97990-4540020	20 g tube	454	air humidity	gel	5-10	12	0,05-0,1

LOCTITE thread sealant



Sample order:

nIm 97990-5110250

Note:

LOCTITE plastic thread sealant, 97990-5331100 has a PW recommendation from the German Federal Ministry of Health in the D2 sealant joints industry based on an inspection carried out by the DVGW Research Institute: suitable for use in the foodstuffs and potable water industries.

Safety:

Visit our website to see the safety and technical data.

Description:

The liquid thread sealant replaces hemp, pastes and PTFE-tapes. Parts can be immediately realigned after jointing.

LOCTITE-liquid pipe thread sealant, 97990-511....

This product is for securing and sealing metal pipe threads and attachment parts. It hardens quickly by air deprivation between close fitting metal parts. Temperature resistant from -55 °C to +150 °C.

Approvals:

DVGW approval (EN 751-1): NG-5146CQ0312

LOCTITE liquid pipe thread sealant low strength, 97990-577....

This product is for securing and sealing metal pipe threads and attachment parts. Especially suitable for use on stainless steel parts without the need to activate the surfaces. It hardens by air deprivation between close fitting metal parts and prevents independent loosening and leaking through knocks or vibration.

Temperature resistance from -55 °C to +150 °C.

Approvals:

P1 NSF Reg. No.: 123001

DVGW approval (EN 751-1): NG-5146AR0621

WRAS approval (BS 6920): 0711506

LOCTITE plastic thread seal, 97990-5331100

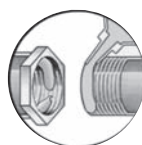
This product is recommended for sealing plastic thread connections on cold and warm water system plastic pipes, and plastic/metal combinations. It hardens through air humidity by ambient temperatures to a low strength, permanently elastic seal against cold and warm water. Temperature resistant from -55 °C to +150 °C.

Approvals:

WRAS approval (BS 6920) for potable water: 0706521

DVGW approval (EN 751-1): NG-5146AR0618 P1

NSF Reg. No: 123620



sealing pipe threads

Order No.	Container	Intern. Ident. No.	Hardening system	Viscosity m Pa · s	Handling strength	Ultimate hardness in hours	Break-away torque Nm	Thread size
97990-5110050	50 ml bottle	511	anaerobic	9000-22000	25 min.	12	6	≤R3
97990-5110250	250 ml tube	511	anaerobic	9000-22000	25 min.	12	6	≤R3
97990-5770050	50 ml bottle	577	anaerobic	16000-33000	30 min.	24	11	≤R3
97990-5770250	250 ml tube	577	anaerobic	16000-33000	30 min.	24	11	≤R3
97990-5331100	100 ml tube	5331	air humidity	50000	immediately	12	1,5	≤R3

LOCTITE flange sealant



Sample order:

nlm 97990-5730250

Note:

* Skin formation time.

Safety:

Visit our website to see the safety and technical data.

Description:

The adaptability of liquid or paste flange sealants solves almost every sealant problem.

LOCTITE flange sealant low strength, 97990-573...

Resistant to the majority of lubricating and hydraulic oils, petrol, diesel and water. To seal close fitting joints between rigid metallic sealing and flange faces. The product hardens under air deprivation between close fitting metal surfaces. Typical applications are the production of liquid seals on torsionally stiff flange connections e.g. transmission and motor housings etc. Temperature resistant from -55 °C to +150 °C.

LOCTITE flange sealant removable, 97990-5203300

To seal close fitting joints between rigid metallic sealing and flange faces. The product quickly hardens under air deprivation between close fitting metal surfaces. A seal against low pressures is produced shortly after the flange is mounted. Can be removed easily, is simply pulled off as a thin film. Typical applications are the production of liquid seals on torsionally stiff flange connections e.g. transmission and motor housings etc. Temperature resistant from -55 °C to +150 °C.

LOCTITE flange sealant permanently elastic, 97900-5910300

Low strength flange sealant for flexible flanges. For plastic/plastic and plastic/metal combinations. Good resistance to oil and against relative movements. Typical applications are amongst others sealing flange like covers on such as control casings and oil tanks. Temperature resistant from -55 °C to +200 °C.



Sealing faces

Order No.	Container	Intern. Ident. No.	Hardening system	Viscosity m Pa · s	Handling strength	Tensile shear strength N/mm ²	Adhesion gap in mm
97990-5730050	50 ml bottle	573	anaerobic	13500-33000	9 hours	1,3	≤0,1
97990-5730250	250 ml tube	573	anaerobic	13500-33000	9 hours	1,3	≤0,1
97990-5731000	1000 ml can	573	anaerobic	13500-33000	9 hours	1,3	≤0,1
97990-5203300	300 ml cartridge	5203	anaerobic	50000-100000	10 min.*	1	≤0,125
97990-5910300	300 ml cartridge	5910	air humidity	paste	40 min.	1,2	>0,3

LOCTITE adhesive and sealant


Sample order:

nIm 97990-5366310

Note:

* Skin formation time.

Safety:

Visit our website to see the safety and technical data.

Description:

For permanently elastic adhesive joints and a simultaneous sealant effect against water and dust, etc.

LOCTITE permanently elastic adhesive and sealant, 97990-5366310

Clear paste. Is used as an adhesive to optimally seal, glue and protect. Typical applications are the sealing of wall panels on trains, sealing heat sources (ovens, heat exchangers, steam pipes, hot water boilers), protection and insulation of switchboxes and gluing HCR silicon. Also used in the maintenance sector.

Temperature resistant from -50 °C to +200 °C.

LOCTITE permanently elastic black adhesive and sealant, 97990-5368310

Black paste. Used mainly to seal. Is also suitable for gluing and high temperature applications. Used in many industrial sectors, such as electrical household equipment and the automobile and aerospace industries.

Temperature resistant from -50 °C to +200 °C.



Elastic bonding
and sealing

Order No.	Container	Intern. Ident. No.	Hardening system	Handling strength in min.	Tensile strength N/mm ²	Elongation %	Shore grade
97990-5366310	310 ml cartridge	5366	air humidity	5*	2	530	25A
97990-5368310	310 ml cartridge	5368	air humidity	5*	2	435	26A

LOCTITE retaining compound


Sample order:

nlm 97990-6030010

Safety:

Visit our website to see the safety and technical data.

Description:

For bonding bushes, bearings and sleeves with push, interference and shrink fits. Full surface contact prevents play, corrosion and contact rust.

LOCTITE retaining compound, oil-tolerant, 97990-603....

This product is used for gluing cylindrical fastener parts. It tolerates small amounts of oily dirt. Hardens under air deprivation between close fitting metal surfaces and prevents independent loosening and leaks caused by knocks and vibrations. Typical applications are amongst others securing roller bearings or oil impregnated bushes in bearing houses.

Temperature resistant from -55 °C to +150 °C.

LOCTITE retaining compound special, 97990-638....

The product is used for gluing cylindrical fastener parts, especially where a gap of up to 0.25 mm is present and maximum strength at room temperature is required. Hardens under air deprivation between close fitting metal surfaces and prevents independent loosening and leaks caused by knocks and vibrations.

Temperature resistant from -55 °C to +180 °C.

LOCTITE retaining compound universal, 97990-648....

This product is used for gluing cylindrical fastener parts. Hardens under air deprivation between close fitting metal surfaces and prevents independent loosening and leaks caused by knocks and vibrations. Typical applications are amongst others gluing gear wheels and chain sprockets to drive shafts.

Temperature resistant from -55 °C to +180 °C.


Bonds bushes and bearings

Order No.	Container	Intern. Ident. No.	Hardening system	Viscosity m Pa · s	Handling strength in min.	Adhesion gap in mm
97990-6030010	10 ml bottle	603	anaerobic	100-150	8	0,1
97990-6030050	50 ml bottle	603	anaerobic	100-150	8	0,1
97990-6380010	10 ml bottle	638	anaerobic	2000-3000	4	0,25
97990-6380050	50 ml bottle	638	anaerobic	2000-3000	4	0,25
97990-6480010	10 ml bottle	648	anaerobic	400-600	3	0,15
97990-6480050	50 ml bottle	648	anaerobic	400-600	3	0,15

LOCTITE cleaner



Sample order:

nIm 97990-7063400

Safety:

Visit our website to see the safety and technical data.

Description:

Cleaning increases the quality of sealed and bonded joints.

LOCTITE super clean, 97990-7063...

CFC free solvent based cleaner, used to clean and degrease surfaces. Ideal for preparing surfaces before applying adhesives or sealants. Quick, residue-free drying.

LOCTITE super clean, 97990-7070400

CFC free solvent based cleaner, used especially for cleaning, degreasing and preparing plastic parts before applying adhesives. Can be used as a spray or immersion bath by room temperature or by higher temperatures. Removes most greases, oils, lubricating liquids, metal swarf and fine particles from plastic parts without the danger of stress cracking. Compatible with metals and most plastics and elastomers.

LOCTITE adhesive and sealant remover, 97990-7080300

This product is used to help remove hardened chemical flange sealants in that it softens the sealant on the flange and so prevents damage caused by forcible scraping. After application a foaming film is formed that prevents the product running off the surface being treated. This allows it to work on the flange sealant for the required time. Typical application is the removal of all liquid flange sealants from metal flanges.



Surface preparation

Order No.	Container	Intern. Ident. No.
97990-7063150	150 ml aerosol	7063
97990-7063400	400 ml vaporizer	7063
97990-7070400	400 ml vaporizer	7070
97990-7080300	400 ml aerosol	7200

LOCTITE activators


Description:

To harden cyanoacrylate (CA) adhesives and anaerobically hardened adhesives; activators are used in passive materials for rapid and complete hardening. To that end the liquid activator is applied to one or both surfaces of the joint before the adhesive is applied.

Sample order:

nIm 97990-7386000

Note:

The activators are supplied in 500 ml sets.

Safety:

Visit our website to see the safety and technical data.

Order No.	Activator type	Intern. Ident. No.	Open time	Carrier medium	Application
97990-7386000	activator for 3298	7386	1 hour	heptane	only for single side activation
97990-7471000	activator T for anaerobic products	7471	30 days	acetone/isopropanol	cure accelerator, may be applied on both sides
97990-7649000	activator N for anaerobic products	7649	30 days	acetone	can be applied to both sides of the fastening

Application equipment


Description:

Suitable equipment simplifies the work and promotes correct practice in handling LOCTITE products.

LOCTITE Peristaltic Hand Pump, 97990-9700100

This hand pump is an inexpensive, accurate hand dosing pump, which screws onto the 50 ml or the 250 ml pack.

LOCTITE screw locks and LOCTITE jointing products can be dosed from 0.01 to 0.4 ml with viscosities up to 30000 m Pa · s using this manual system. The system can be used in any position, does not drip and optimises product consumption. In addition, it requires no cleaning and no electric or compressed air connection.

Teroson cartridge press 97990-9150310

For standard 150/310 ml cartridges.

Rugged design for regular use.

Sample order:

nIm 97990-9700100

Order No.	Item name
97990-9700100	Peristaltic Hand Pump
97990-9150310	Teroson Cartridge Applicator