

KOMATSU

Sealant, Adhesives and Aerosols



Quality Komatsu products offer lasting solutions to keep your construction equipment in top performance

Komatsu's advanced line of maintenance and repair products are chosen for their ability to excel in the most demanding of applications along with maintaining your equipment's performance. High performance industrial products, including sealants and adhesives, aerosols, cleaners and more, will meet a variety of your needs including saving you time and money. **The perfect solution.**



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SEALANTS & ADHESIVES

Anaerobic Sealant Primer

Part No. 1401401H1

5 FL. OZ. (130ml) Can

Degreases oily parts and speeds the curing of many adhesives and sealants. Used to speed cure at temperatures below 50°F. Ensures cure on plated surfaces. Reduces cure time delays by providing partial cure in 3-15 minutes with full cure in 60 minutes.

Typical Applications:

- Threadlockers
- Gasket makers
- Pipe Sealant with PTFE
- Bearing mount
- Retaining compound

**Bearing Mount Compound**

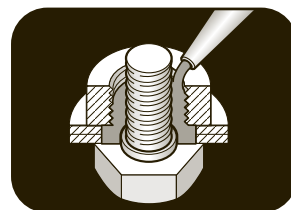
Part No. 1401402H1

1.69 FL. OZ. (50ml) Bottle

Restores fit between replacement bearings in worn housings or on worn shafts. Fills clearances to .005" (.13mm). Increases holding power of press fits and helps prevent bearing spin out.

Typical Applications:

- Ball bearings
- Roller bearings
- Sintered bearings
- Bushings
- Needle bearings

**Epoxy Adhesive General Purpose**

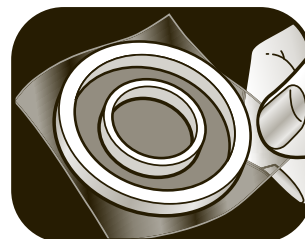
Part No. 1401436H1

1.40 FL. OZ. (41.4ml) Kit

Pre-measured resin and hardener in a convenient mixing cup. No measuring. Just remove the lid, press down on the center of the cup to form a mixer cup. Mix to a grey color and make your repair. Bonds parts with irregular fits and large gaps - stone, concrete, metal, plastic, wood and more. Use anywhere you would use an epoxy.

Typical Applications:

- Bond shift handles to levers
- Bond name plates
- Patch holes in pipe and tubing
- Resurface corroded areas on cab
- Attach insulation

**Gasket Maker**

Part No. 1401437H1

1.69 FL. OZ. (50ml) Tube

An excellent form-in-place gasket. It fills gaps to .020" and cures into a tough solvent-resistant gasket. This Gasket Maker flexes with flange movement caused by vibration, pressurization or thermal change. It resists temperatures to 350°F.

Typical Applications:

- Flywheel housings
- PTO housing cover to housing
- Axle housing to ring gear to differential case

**Gasket Remover**

Part No. 1401438H1

1 Quart (946ml) Can

Restores fit between replacement bearings in worn housings or on worn shafts. Fills clearances to .005" (.13mm). Increases holding power of press fits and helps prevent bearing spin out.

Typical Applications:

- Ball bearings
- Roller bearings
- Sintered bearings
- Bushings
- Needle bearings



SEALANTS & ADHESIVES (continued)

Cement

Part No. 1401406H1

8 FL. OZ. (240ml) Can

A temperature and oil resistant contact cement.

Typical Applications:

- Bond, seal or patch
- Bond cork, leather, rubber, metal - bond headliners and wall insulation in cabs
- Contains flammable solvent

**Liquid Gasket**

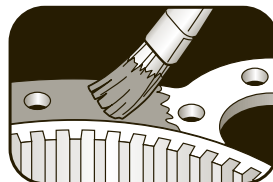
Part No. 1401407H1

8 FL. OZ. (240ml) Can

A quick drying flexible gasket material designed for a wide variety of uses.

Typical Applications:

- Flanges
- Gaskets
- Hose and threaded connections
- Rear axle assembly
- Differential assembly
- Waterproofing electrical terminals & wires
- Weather stripping
- Tubeless tire beads

**Pipe Sealant with PTFE**

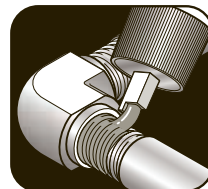
Part No. 1401408H1

1.69 FL. OZ. (50ml) Bottle

Seals plugs and tapered pipe threads instantly. Eliminates the need for pipe dopes and PTFE tapes. Outperforms other sealing methods because it does not shrink, dry out or shred to contaminate systems or contain any harsh solvents. The instant sealing feature allows parts to be returned to service immediately. Also allows adjustment without losing a seal.

Typical Applications:**Seals**

- Pipe plugs above 1/8"
- Water jacket plugs
- Turbo lube and drain plugs
- Air intake plugs
- Water pump plugs and elbow fittings
- Injection pump governor cover fittings
- Fuel transfer pump fittings
- Oil pan drain plug hose fitting
- Temperature sending unit
- Cylinder head core plugs

**Retaining Compound**

Part No. 1401409H1

1.69 FL. OZ. (50ml) Bottle

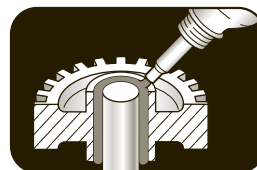
Retains and seals cylindrical metal parts where high temperature resistance is required. For use on sleeves, pins and keyways exposed to temperatures up to 450°F. Well suited for use on threaded parts exposed to high temperatures up to 450°F.

Typical Applications:**Retains and Seals**

- Valve sleeves
- Retains pins
- Cylinder liners
- Keyways

Locks and Seals

- Bolts on final drive



SEALANTS & ADHESIVES (continued)

Thread Lock Breakaway Strength

Part No. 1401410H1

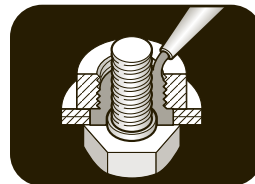
1.69 FL. OZ. (50ml) Bottle

This blue threadlocker is a general-purpose product for both locking and sealing (up to 3/4") threaded fasteners that will require removal. Eliminates premature loosening, leakage and rust-locked parts. Ideal for parts subjected to shock and vibration.

Typical Applications:

Locks and Seals

- Trunion bolts
- Equalizer cover plate bolts
- Radiator guard bolts
- Cab attachment bolts
- Deck plate cap screws
- Roller guard bolts
- Track roller end-collar cap screws
- Sprocket hub set screws
- Outer bearing retaining screws
- Sent bracket bolts
- Accessory mounting bolts



Thread Lock High Strength

Part No. 1401411H1

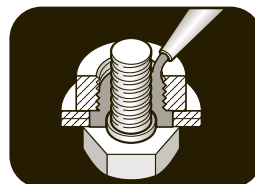
1.69 FL. OZ. (50ml) Bottle

This threadlocker is designed for heavy-duty, large or permanent assemblies. For use with large studs and fasteners (up to 1").

Typical Applications:

Locks

- Oil filter base to block studs
- Starter to block studs
- Fuel injection pump to block studs
- Final drive housing studs
- Wheel studs



Tips on using Threadlockers and Thread Sealants:

- Clean surfaces always produce the best results. Spray parts with a non-petroleum shop solvent and wipe with a rag.
- Cooler temperatures will delay cure times.
- Speed of cure is dependent on the type of metal, the clearance of the parts and the temperature.
- Do not over-apply. Excess sealant may lock parts not wanted to be locked.
- To disassemble permanent assemblies, heat parts to 450°F and disassemble when hot.



AEROSOLS

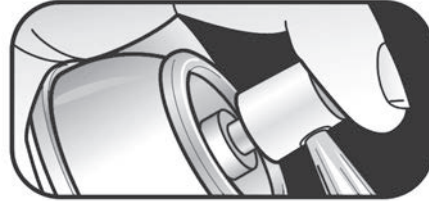
Brake Cleaner

Part No. 1401412H1

12.5 OZ. (354g) Can

Typical Applications:

- Cleans components of dust, dirt, grease, oil, and brake fluid residue
- Non-chlorinated formula
- Fast acting cleaner for all metal parts
- Dries quickly
- Low VOC

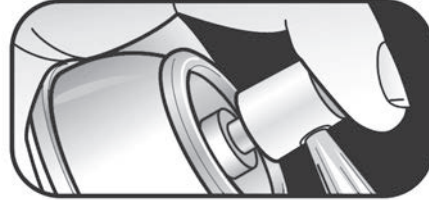
**Chain and Cable Lubricant**

Part No. 1401413H1

12 OZ. (340g) Can

Typical Applications:

- Construction Equipment
- Farm Machinery
- Industrial Chains
- Conveyor Chains

**Dry Film Lubricant**

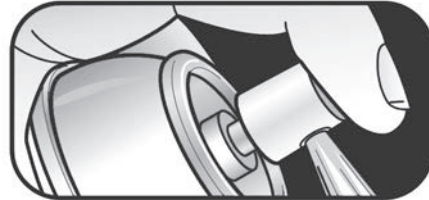
Part No. 1401414H1

12 OZ. (340g) Can

Positive protection from wear, rust corrosion.

Typical Applications:

- Backhoe Extended Stick and Side Shift
- Motor Grader Blade Circle
- All Sliding Surfaces

**Light Penetrating Oil**

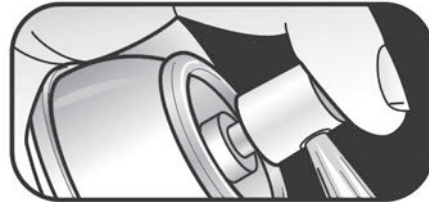
Part No. 1401435H1

12 OZ. (340g) Can

Komatsu® Light Penetrating Oil is an excellent general purpose lubricant for all around shop use. It can free rusted or corroded fasteners, stop squeaks, and be used as a short term rust preventative. This 'clean' formula contains no extra additives for light duty applications.

Typical Applications:

- | | |
|--------------------------|-----------------|
| • Construction Equipment | • Pipe Fittings |
| • Farm Machinery | • Pulleys |
| • Rusty Nuts | • Sheaves |

**HD Penetrating Oil**

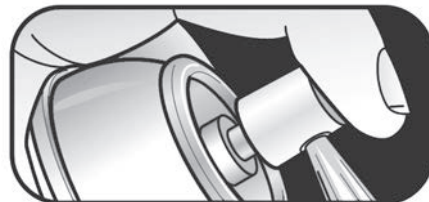
Part No. 1401415H1

12 OZ. (340g) Can

Komatsu® HD Penetrating Oil contains fast acting powerful solvents. It cuts rust, paint, dirt, dope, grease, and corrosion, and penetrates even the smallest cracks. The moly allows for easy separation and lubrication. The aerosol container allows easy application.

Typical Applications:

- | | |
|--------------------------|-----------------|
| • Construction Equipment | • Pipe Fittings |
| • Farm Machinery | • Pulleys |
| • Rusty Nuts | • Sheaves |



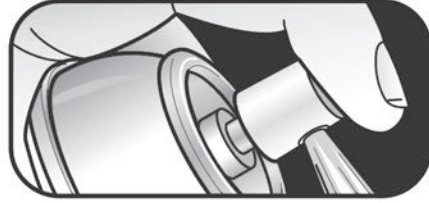
AEROSOLS (continued)**HD Silicone Lubricant**

Part No. 1401416H1

11 OZ. (311g) Can

Typical Applications:

- Lubricates, makes water-resistant
- Safe on most surfaces
- Reduces sticking, binding and squeaking
- High dielectric characteristics
- Protects electrical systems

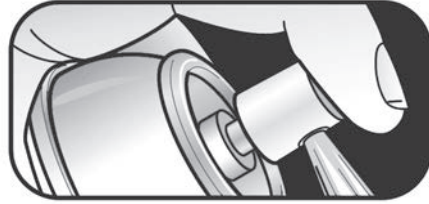
**Industrial Strength Rust Penetrant**

Part No. 1401417H1

12 OZ. (340g) Can

Typical Applications:

- Provides a wicking action
- Leaves corrosion control and rust resistance
- Quickly penetrates and eases disassembly

**Component Cleaner**

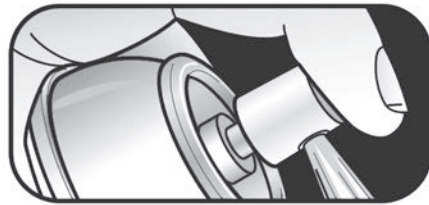
Part No. 1401439H1

14 OZ. (396g) Can

A strong, fast drying degreaser.

Typical Applications:

- General purpose parts cleaner
- Safe on all metal surfaces



Q What can these products do for me?

A Komatsu's line of adhesives, sealants and maintenance products will:

- Increase the reliability of your repair work
- Reduce expensive come-backs
- Reduce repair downtime

Q What types of repairs can I make with the adhesives and sealants?

A This product line allows you to:

- Lock and seal threaded parts with the THREAD LOCK PRODUCTS
- Lock and seal threaded fittings with PIPE SEALANT WITH PTFE
- Repair and install (to prevent wear) cylindrical assemblies with BEARING MOUNT and RETAINING COMPOUND
- Seal flanged assemblies with GASKET MAKERS

Q How do I know which product to use?

A The packages are clearly marked with the product's function. Reference to service manuals is critical, and detailed product applications, by product, are included in the back of this hand book.

Q How do these products work?

A The (anaerobic) product fills the space between mating parts then cures to a tough plastic. The bond and seal is much tougher than a mechanical method.

Q Can I get parts apart?

A Yes. A little extra elbow grease and regular tools will do the job in most cases. Heating parts to 450°F and disassembling while parts are hot will also work.

Q Should I clean parts first?

A Surface preparation is important when using any adhesive or sealant. Clean parts with a good shop solvent and wipe with a towel. Use of Anaerobic Sealant Primer, will clean parts and speed cure of many adhesives.

Q How does temperature affect the cure of these adhesives?

A The adhesives will cure faster in warm weather than in cool weather. It is always wise to use Anaerobic Sealant Primer with Anaerobic Adhesive when the temperature is below 50°F.

Q What are the temperature limits for these adhesives?

A The operating temperature limits are:

- Thread Locks and Bearing Mount, -65°F to 300°F
- Gasket Makers, -65°F to 350°F

Q How resistant to shop solvents and fluid are these materials?

A The anaerobic products are resistant to gasoline, diesel fuel, motor oil, hydraulic oil, and most solvents and gases.

Q How quickly will these anaerobic adhesives harden?

A A general rule is 1 hour for fixture and 4 hours for full cure. Anaerobic Sealant Primer will speed cure as well as heating parts to 300°F

Q What happens if I apply adhesive/sealant and it doesn't work?

A Three things could have happened.

1. Sufficient material was not applied to fill the joint.
2. Insufficient time was allowed for cure.
3. Parts were excessively oily, dirty or greasy, which may prevent the adhesive/sealant from curing.

Questions About Threadlocking, Thread Sealing, and Retaining Compounds:

Q Why should I use a chemical threadlocker, and which one do I use?

A Locking and sealing threaded parts chemically is more reliable and more economical. For use on nuts, bolts, screws and studs. Use the (blue) Thread Lock which is breakaway strength for fasteners (1/4"-3/4") that will require removability. Use (red) High Strength Thread Lock for studs and permanent, heavyduty fasteners.

Q Why should I use a chemical thread sealant in place of PTFE Tape?

A Pipe Sealant with PTFE outperforms PTFE Tape. It will not shred to clog systems, and it allows adjustment of parts without losing a seal. It seals instantly and adds lubricity for easy assembly.

Q What is a Retaining Compound?

A Retaining Compounds bond cylindrical metal parts - they repair worn parts in maintenance, thus eliminating expensive rematching. They are ideal when installing new parts to prevent wear.

Q How can I prevent "rusting in" between linkage pins and cartridge pins and their mating bores?

A Use Thread Lock to coat the pin and bore. Then assemble. It seals out rust and eliminates the need for burning out pins. Use it on loader linkage arms, excavator sticks and booms as well as similar assemblies.

Questions About Gasketing:

Q How does anaerobic gasketing differ from precut gaskets and gasket dressings?

A Anaerobic form-in-place gaskets cure to a tough plastic that will not shrink or compress like conventional gaskets. They fill all the surface imperfections on the flange surface for a solid seal.

Q How do I know what gasketing product to use?

A Selection of the correct gasketing product is critical. Always use your service manual as a guide. Gasket Maker is used on rigid flanges such as hydrostatic transmission flanges and flywheel housing.

Q How do I apply Gasket Maker?

A Apply directly from the nozzle applicator on the tube. No mixing. No heat cure. For most joints, apply a 1/16" (1.59 mm) diameter bead in the center of the flange circling the bolt holes. Be sure that the material will be in contact with both flanges when parts are assembled. Material does not cure until flanges are mated together.

Questions About Bonding:

Q When bonding a broken part, how do I know when to use the Epoxy General Purpose Kit?

A The Epoxy Adhesive General Purpose Kit comes in a premeasured package for making fast repairs on almost any surface - particularly when the parts are irregular or not close fitting. This kit provides more total volume of material than other two part epoxy mixercups.

Sealants & Adhesives

Anaerobic Sealant Primer 5 FL. OZ. (130ml) Can

Application: Threadlockers, Gasket makers, Pipe sealant with PTFE, Bearing mount, Retaining compound

Part No. 1401401H1

Bearing Mount Compound 1.69 FL. OZ. (50ml) Bottle

Application: Ball bearings, Roller bearings, Sintered bearings, Bushings, Needle bearings

Part No. 1401402H1

Epoxy Adhesive General Purpose 1.40 FL. OZ. (41.4ml) Kit

Application: Bond Shift handles to levers, Bond name plates, Patch holes in pipe and tubing, Resurface corroded areas on cab, Attach insulation

Part No. 1401436H1

Gasket Maker 1.69 FL. OZ. (50ml) Tube

Application: Flywheel housings, PTO housing cover to housing, Axle housing to ring gear to differential case

Part No. 1401437H1

Gasket Remover 1 Quart (946ml) Can

Application: Ball bearings, Roller bearings, Sintered bearings, Bushings, Needle bearings

Part No. 1401438H1

Cement 8 FL. OZ. (240ml) Can

Application: Bond cork, leather, rubber, metal - bond headliners and wall insulation in cabs

Part No. 1401406H1

Liquid Gasket 8 FL. OZ. (240ml) Can

Application: Flanges, Gaskets, Hose and threaded connections, Rear axle assembly, Differential assembly, Waterproofing electrical terminals & wires, Weather stripping, Tubeless tire beads

Part No. 1401407H1

Pipe Sealant with PTFE 1.69 FL. OZ. (50ml) Bottle

Application: Pipe plugs above 1/8", Water jacket plugs, Turbo lube and drain plugs, Air intake plugs, Water pump plugs and elbow fittings, Injection pump governor cover fittings, Fuel transfer pump fittings, Oil pan drain plug hose fitting, Temperature sending unit, Cylinder head core plugs

Part No. 1401408H1

Retaining Compound 1.69 FL. OZ. (50ml) Bottle

Application: Valve sleeves, Retains pins, Cylinder liners, Keyways, Bolts on final drive

Part No. 1401409H1

Thread Lock Breakaway Strength 1.69 FL. OZ. (50ml) Bottle

Application: Trunion bolts, Equalizer cover plate bolts, Radiator guard bolts, Cab attachment bolts, Deck plate cap screws, Roller guard bolts, Track roller end-collar cap screws, Sprocket hub set screws, Outer bearing retaining screws, Sent bracket bolts, Accessory mounting bolts

Part No. 1401410H1

Thread Lock High Strength 1.69 FL. OZ. (50ml) Bottle

Application: Oil filter base to block studs, Starter to block studs, Fuel injection pump to block studs, Final drive housing studs, Wheel studs

Part No. 1401411H1

Aerosols

Brake Cleaner 12.5 OZ. (354g) Can

Application: Fast acting cleaner for all metal parts

Part No. 1401412H1

Chain and Cable Lubricant 12 OZ. (340g) Can

Application: Construction equipment, Farm machinery, Industrial chains, Conveyor chains

Part No. 1401413H1

Dry Film Lubricant 12 OZ. (340g) Can

Application: Backhoe extended stick and Side shift, Motor grader blade circle, All sliding surfaces

Part No. 1401414H1

Light Penetrating Oil 12 OZ. (340g) Can

Application: Construction equipment, Farm machinery, Rusty nuts, Pipe fittings, Pulleys, Sheaves

Part No. 1401435H1

HD Penetrating Oil 12 OZ. (340g) Can

Application: Construction equipment, Farm machinery, Rusty nuts, Pipe fittings, Pulleys, Sheaves

Part No. 1401415H1

HD Silicone Lubricant 11 OZ. (311g) Can

Application: Lubricates, makes water-resistant, Safe on most surfaces, Reduces sticking, binding and squeaking, High dielectric characteristics, Protects electrical systems

Part No. 1401416H1

Industrial Strength Rust Penetrant 12 OZ. (340g) Can

Application: Provides a wicking action, Leaves corrosion control and rust resistance, Quickly penetrates and eases disassembly

Part No. 1401417H1

Component Cleaner 14 OZ. (396g) Can

Application: General purpose parts cleaner, Safe on all metal surfaces

Part No. 1401439H1

Product Name	Size	Part No.
Anaerobic Sealant Primer	5 FL. OZ. (130ml) Can	1401401H1
Bearing Mount Compound	1.69 FL. OZ. (50ml) Bottle	1401402H1
Epoxy Adhesive General Purpose	1.40 FL. OZ. (41.4ml) Kit	1401436H1
Gasket Maker	1.69 FL. OZ. (50ml) Tube	1401437H1
Gasket Remover	1 Quart (946ml) Can	1401438H1
Cement	8 FL. OZ. (240ml) Can	1401406H1
Liquid Gasket	8 FL. OZ. (240ml) Can	1401407H1
Pipe Sealant with PTFE	1.69 FL. OZ. (50ml) Bottle	1401408H1
Retaining Compound	1.69 FL. OZ. (50ml) Bottle	1401409H1
Thread Lock Breakaway Strength	1.69 FL. OZ. (50ml) Bottle	1401410H1
Thread Lock High Strength	1.69 FL. OZ. (50ml) Bottle	1401411H1
Brake Cleaner	12.5 OZ. (354g) Can	1401412H1
Chain and Cable Lubricant	12 OZ. (340g) Can	1401413H1
Dry Film Lubricant	12 OZ. (340g) Can	1401414H1
Light Penetrating Oil	12 OZ. (340g) Can	1401435H1
HD Penetrating Oil	12 OZ. (340g) Can	1401415H1
HD Silicone Lubricant	11 OZ. (311g) Can	1401416H1
Industrial Strength Rust Penetrant	12 OZ. (340g) Can	1401417H1
Component Cleaner	14 OZ. (396g) Can	1401439H1

Full support from your Komatsu distributor.

Ask your local Komatsu distributor about maintenance and repair contracts. All work is done by factory-trained mechanics using genuine Komatsu parts and products. Your Komatsu distributor can help keep your equipment running, reduce unscheduled repairs, and lower your overall operating costs.

For more information, please contact your local Komatsu distributor.