

CHEMICALS

Hot melt welding putty (To Repair Rigid PVC, Stainless steel, Cast iron, Brass & Bronze and Aluminum)

Feature:n

1. The product do not contain the organic solvent (100%) solid solute. It will not evaporate and harden.
2. Environmental production and non-pollution. The product is containing no heavy metal (Cd, Cr, Hg and Pb).
3. Po:life : within five years under 25°C
4. Curing : room temperature 2hrs-4hrs, under the heating temperature of 200°C, it will take 10 ~ 30 seconds to harden.
5. Working pressure : MWP 30kgf/cm² (425psi).
6. Heat resistance 180°C, Cold resistance-60°C.
7. Corrosion, acid, alkali and freon resistance.
8. Strong adhesion various high tencacity. Expansion when hot and shrinkage when cold. It will not spall and crack.



AU00611

Application

Multi-purpose of repairing in various materials.such as:rigid pvc pipes,stainless steel, bronze, brass, casting iron, aluminum, galvanized pipe & socket, elbow, pressing fitting, cooling/heating/steam coil, A/C condenser, A/C pipe. evaporator, radiator.power steering pipe.transmission case, and different hard materials welding adhesion each others



ThreeBond 1401

Screw-loosening, Leakage and Rust Preventive Agent
ThreeBond 1401 is a screw-loosening and leakage preventive agent containing synthetic resin. Simply by coating it on the screw and assembling, it prevents screw-loosening, leakage, and rusting. Removing the screw, requires force which is up to 20% greater than the tightening force.



AU00028

- Suitable for all screws, but is best for smaller screws of M16 or below which are frequently removed.
- Package: 200-g and 1-kg cans

Code No.	Model No.	Packing
AU00028	TB1401	200ml / Btl
AU00029	TB1401	1 lit / Btl

Code No.	Model No.	Packing
AU00030	TB1401B	200ml / Btl
AU00031	TB1401B	1 lit / Btl
AU00032	TB1401C	200ml / Btl
AU00033	TB1401C	1 lit / Btl

Synthetic Rubber Adhesive – 1521C

This main component of this adhesive is synthetic rubber.

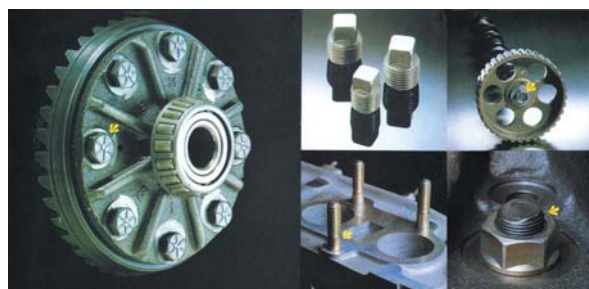
- Main uses: Bonding of leather, rubber, canvas, paper metal, concrete, glass, wood and plastics.
- Package: 150ml/tube, 1kg/can



AU00037

Code No.	Model No.	Packing
AU00037	TB1521C	200ml/tube 1 kg/can

ThreeBond 1300 Series



This powerful anaerobic sealant is a single-fluid non-solvent agent. Its main component is the liquid macro-molecular substance. Its fills the gaps of metal parts and adheres to them at room temperature when air is block.

Various types are available to cater to different purposes, such as the low strength, medium strength and high strength type, and for use with screw or fitting.

- * Fastening and sealing of screws.
- * Fastening the fitting parts of pulley, etc.

Packing: 50g, 250g/plastic container

AU00019

Type	High Strength		Medium Strength		Low Strength		
	1303	AU00019 1305	AU00022 1322	AU00023 1324	1327	1342	1344
Color	Green	Green	Red	Red	Red	Blue	Blue
Viscosity cps ±20% . 25°C	150	600	150	600	2500	150	600
Return torque (kgf . Cm) . Break-loose torque* 1	250~350	250~350	100~200	100~200	200~300	50~100	50~100
Return torque (kgf . Cm) . Prevailing torque* 1	250~350	250~350	250~350	250~350	200~300	50~70	50~70
Fit strength (kgf/cm ²) 6Ø x 15L*2	250~350	250~350	160~210	200~280	220~300	100~160	100~160
Fit strength (kgf/cm ²) 12.7Ø x 11L*3	200~250	200~250	140~190	160~210	180~230	20~60	50~90
Setting speed, time to practical strength (hr)* 4	1~2	1~2	1~2	1~2	1~2	1~2	1~2
Setting speed, time to final strength (hr)	24	24	24	24	24	24	24
Optimum clearance (mm)	0.005~0.01	0.01~0.02	0.005~0.01	0.01~0.02	0.02~0.05	0.005~0.01	0.01~0.02
Maximum clearance (mm)	0.15	0.3	0.15	0.3	0.3	0.15	0.3
Chemical resistance* 5	4	4	4	4	4	3	3
Usable temperature range	-80~150°C	-80~150°C	-80~150°C	-80~150°C	-80~150°C	-80~150°C	-80~150°C
Main usages	Permanent fixing & sealing of stud bolts & screws		Medium strength fixing & sealing of removable bolts & nuts			Fixing and sealing of screws requiring frequent removal	

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Selection Chart

Type Grade	Non Solvent Type		Solvent Type		
	1101	1102	1104	1105	1107
Item					
Main Components	Phenol Resin modified with Fatty Acid	Modified Alkyd Resin	Synthetic Rubber	Synthetic Rubber	Lubricating Oil, Colloidal Metal
Color	Reddish Brown	Yellow	Gray	Black or Silver	Black
Viscosity (cP, 25°C)	1,000,000	6,900	9,500	3,500	40,000
Specific Gravity (25°C)	1.42	1.33	1.36	0.92	3.00
Non-Volatile Matter (%)	Non-Solvent	79	56	26	94
State after Application	Non-Drying	Non-Drying	Semi-Drying	Peelable Dry Film	Non-Drying
Elasticity	Non-Elastic	Non-Elastic	Elastic	Elastic	Non-Elastic
Pressure Resistance					
25°C (Kgf/cm²)	70	95	95	85	80
80°C (Kgf/cm²)	35	75	80	65	65
150°C (Kgf/cm²)	5	60	70	55	55
Heat Cycle Resistance (Kgf/cm²)	35	75	90	55	65
Chemical Resistance					
to Water (95°C)	5	5	5	5	5
to Gasoline (50°C)	1	5	5	4	1
to Oil (100°C)	2	5	5	4	1
to NaOH (10%)	2	5	5	5	2
to H ₂ SO ₄ (10%)	3	5	5	5	2
Properties					
Moulding	4	3	4	3	4
Dismantling	3	3	3	4	4
Tackiness after Application	Tacky	Tacky	Non-Tacky	Non-Tacky	Tacky
Serviceable Temp. (°C)	-40-80	-40-150	-40-150	-40-150	-40-400
Diluent	-	Toluene, MEK	Toluene, MEK	Ethyl Acetate, MEK	Toluene, MEK
Content (Container)	1kg Can, 200g Tube	1kg Can, 200g Tube	1kg Can, 200g Tube	1kg Can, 150g Tube	1kg Can
Old Grade Reference	TB #1	TB #2	TB #4	TB #5	TB #7
Features	<ul style="list-style-type: none"> Non-solvent and harmless Excellent sea water resistance Does not deteriorate plastics and rubber 	<ul style="list-style-type: none"> All-round use Non-drying, easy application Excellent gasoline resistance JIS K-6820 Patent No. 506844 	<ul style="list-style-type: none"> All-round use For large clearance application Excellent LPG S/b on one line resistance JIS K-6820 Patent No. 569400 	<ul style="list-style-type: none"> Vibration resistance Peelable dry film 	<ul style="list-style-type: none"> For high temperature application

Type Grade	Silicone RTV (Room Temperature Vulcanization)				
	1211	1212	1215	1207C / 1207D	
Item					
Reaction Mechanism	Deoxygenation	Deoxygenation	Deoxygenation	Deoxygenation	
Color	White	White	Gray	Red-brown (1207C) / Silver (1207D)	
State, Viscosity (cP, 25°C)	70,000	Non-fluid	Semi-fluid	Non-fluid	
Specific Gravity (25°C)	1.01	1.05	1.50	1.50	
Extrusion	g / 5sec	45	30	30	
	cc / 5sec	30	28.5	20	
Touch-proved Desiccation Time (min)	90	15	60	5	
Setting Time (mm/day)	-	-	2.5	3.0	
Hardness (Hs)	20	35	45	60	
Tensile Strength (Kgf/cm²)	10	20	15	50	
Elongation (%)	230	260	320	170	
Shear Bonding Strength (Kgf/cm²)	12	10	8.0	12.0	
Chemical Resistance	To Water	-0.5	+1.3	-0.5	-0.4
	To Engine Oil	+5.0	+5.0	+3.0	+5.8
	To Gasoline	-20.2	-15.1	-4.0	-3.0
Removability	Normal	Normal	Normal	Good	
Effective Temperature Range	-60~250°C	-60~250°C	-60~250°C	-60~250°C	
Coating Method	Tracing	Tracing	Tracing	Tracing	
Capacity	100g	100g	250g, 333cc, 20kg	150g, 333cc, 20kg	
Typical Application	General Purpose	General Purpose	Differential case, Transmission	Water pump, Oil pan	
Main Features	Fluid, Easy application	Non-fluid, Easy moulding	Resistive for gear oil	Quick setting, high tolerance to pressure realized immediately after coating-assembling, high resistivity to chemicals, readily removable and resistive to LLC and engine oil.	
Caution: May deteriorate copper and copper alloys					

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ThreeBond 1700 Series

Instant Heavy Duty Adhesive

ThreeBond 1700 Series are instant heavy-duty adhesives. The adhesives adhere strongly within a few seconds on almost all substances such as metals, plastics, glass, rubber ceramics, etc., but it is not suitable for adhering materials which adsorb the adhesive such as leather, canvas, paper, wood, etc.

- For adhering weather strip rubber and door-stop rubber, firm fixing of the speed changer lever, fitting of cushion rubber and gromet and oscillation prevention of the fender mirror.
- Package...2-g and 20-g plastic containers.

Code	Model	Packing
AU00041	TB1741	20g / Btl
AU00042	TB1743	20g / Btl
AU00043	TB1747	20g / Btl
AU00044	TB1781	20g / Btl
AU00045	TB1782	20g / Btl
AU00046	TB1783	20g / Btl

Code	Model	Packing
AU00047	F2 Instant	20g / Btl
AU00048	TB1796BP	45g / Btl
AU00049	TB1795	100ml



AU00041

ThreeBond 1802B

Penetrating Water-Repellant Anticorrosives for Facilities

Multipurpose aerosol anticorrosive lubricant to prevent moisture and corrosion, lubricate, loosen screws and clean. Powerful water repellent, antimicrobial and anticorrosive properties keep moisture and rust away from metal surfaces of machines, parts, tools and jigs. Powerful lubricating properties eliminate squeaking from sliding parts. Powerful penetrating properties make seized bolts removable, and have rust and stains released and cleaned.

- APPLICATION: Rust-prevention, lubrication and cleaning of machines, parts, tools and jigs. Loosening of seized bolts and screws.
- FEATURE: In compliance with JIS K2246-NP3
- PACKAGE: 420 ml aerosol

Code	Model	Packing
AU00050	TB1802B	420ml



AU00050

ThreeBond 1804

Odorless Rust-preventive Lubricant

ThreeBond 1804 is an odorless rust-preventive lubricant. It is practically odorless, and has virtually no adverse effect on plastics. The usage applications are the same as ThreeBond 1801, but it is most suitable for the cabin of automobiles where odor is liable to become stuffy, or where plastics are assembled.

- Spray it on cabin or room which has become stuffy such as the return springs of the clutch and brakes.
- Package...20-ml aerosol-type

Code	Model	Packing
AU00051	TB1804	420ml



AU00051

ThreeBond 1805

Grease-type Rust-preventive Lubricant

ThreeBond 1805 is a grease spray-type rust-preventive lubricant. When sprayed, it becomes a durable grease with soft film that can withstand high loads and closely adheres to the metallic surface. It has excellent waterproofing and weather resistance, and in particular, it withstands washing-out by rainwater and effective long-term rust prevention and lubrication. Fine for rust prevention and lubrication of outside locations which are directly exposed to sunlight and rain.

- For bonnet locks, door hinges, door locks, trunk hinges, spaces between leaf springs, spring spacers, clutch plunger squeaks, petal squeaks, gate-door hinges, yachts, cultivators, tools, and lawn mowers.
- Package...340-ml aerosol-type

Code	Model	Packing
AU00052	TB1805	340ml



AU00052

ThreeBond 1855 / 1856

Silicone Grease

This grease is made up mainly of silicone. In comparing with the petroleum oil series, the working temperature is wider. It is able to maintain its lubricity at 30-170°C. It is also stable to heat oxidation and water, making it very suitable for use on gas cooker.

- Main application: Gas cooker grease, lubricate rubber and plastic parts.
- Feature: Good stability to heat oxidation
- Packaging: 100g tube
- 1 case: 20 pieces x 5

Code	Model	Packing
AU00053	TB1855	100g

Code	Model	Packing
AU00054	TB1856	100ml



AU00053

ThreeBond 1901 and 1910

Molybdenum Disulfide Based Seizure Preventive Lubricants

ThreeBond 1901 and 1910 are molybdenum disulfide based seizure preventive lubricants. Molybdenum disulfide has a friction coefficient which is lower than any conventional lubricants, and is an ultra-fine-grain solid lubricant which is also extremely stable chemically and temperature wise. Through friction, it forms a lubricating film which is smooth, tough, heat resistant, pressure resistant and protects mechanical parts from wear, seizure, and gouging which are major problems of mechanical equipment.

- Use ThreeBond 1901 and 1910 to sliding parts, rotary parts, fitting-over parts and screwed parts.
- ThreeBond 1901...1-kg and 500-g canned pastes
- ThreeBond 1910...480-g aerosol-type

Code	Model	Packing
AU00055	TB1901	1kg / Can
AU00056	TB1910	420ml



AU00055

ThreeBond 2082C

High Shear Strength Type

Three Bond 2082C is a two-component epoxy adhesive compound. Rubber particles are distributed within the epoxy, making the cured material non-brittle, imparting toughness and high bonding ability.

The pot life at room temperature (25 °C) is 70 minutes. About 90% of the total strength can be obtained after 24 hours.

Application

Bonding of various metals, plastic, etc

- Repair bonding for cars, vehicle and ship
- Bonding of electrical and electronic parts
- Bonding of precision equipment
- Bonding of ski rack and other sports equipment

Code	Model	Packing
AU00057	TB2082C	100g / Set



AU00057

ThreeBond 2082B

Filling Repairing Agent

Three Bond 2082E is a two-component epoxy adhesive compound. Widely use for application like filling and repairing. This production has a high adhesive strength, excellent resistance towards chemicals, water, oil and mechanical force.

Application

Bonding of various type of metals, glass, china, tile, stone, concrete, plastic, etc. (Not suitable for polyethylene, polypropylene, o-polymer)

Repairing of holes and crack of mortar, concrete, metals, etc.

Code	Model	Packing
AU00058	TB2082B	1.5g / Set



AU00058

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ThreeBond 2083 Under water-hardening Type Adhesive & Filling Agent

Putty-like water-setting filler-adhesive based on epoxy resin. High bonding strength is achieved in the presence of moisture and even in water, allowing to be used in such environment where the conventional adhesive is not so effective.

- **Application:** Bonding, filling and repairing in water and on moist faces. Bonding of hard PVC pipe, filling of cracks and holes in concrete, and bonding of tiles.
- **Feature:** Reacts and sets in water and under moist conditions to exert high bonding strength.
- **Package:** 500 g set, 2 kg set can.

Code	Model	Packing
AU00059	TB2083	500g / Set
AU00060	TB2083	2kg / Set

AU00060



ThreeBond 2086 Emergency Repair Adhesives

ThreeBond 2086 is an epoxy-resin-based emergency repair adhesive. It begins to harden at 25 °C in 2 to 3 min and reaches the practical-use temperature in 10 to 30 min. The hardened product also can be machined.

- It is suitable for repairs of hard materials such as repair of radiator leaks, and water and oil leaks due to cracks of metals such as cylinder oil pan.
- 500-g set (main agent and hardener) wide-mouth PVC container w/1 spatula and glass roll, 1 ea. (5-cm wide and 1-m long).

AU00061



Pando 391D Gasket Remover

This is an easy-to-use, aerosol type, removing agent for gasket.

- **Main application:** This can be used to remove gasket, packing, sealant, grease, carbon or paint.
- **Feature:** Does not attack metals
- **Packaging:** 420ml aerosol
- **1 case:** 10 pieces x 2

Code	Model	Packing
AU00073	PANDO391D	480g / Spray

AU00073



Super Sealer

Super Sealer No 1, 2, 3 are high temperature resistant silicon sealant. They are developed based on totally different concepts and leakage prevention theories from the conventional solid sheet gasket. Simply apply a layer of sealant on the flange surface of engine parts. Leakage of oil, water, gasoline can be prevented.

- Extreme high temperature resistance (-65 °C to 350 °C)
- Fast cure and Odourless
- Excellent Oil resistance

Code	Model	Packing
AU00074	No. 1 Grey	85gm / Tube
AU00075	No. 2 Red	85gm / Tube
AU00076	No. 3 Red	85gm / Tube

AU00074



Super Lubricant

Super Lubricant is an environment friendly lubricating agent. Developed for moisture-proofing, rust-preventive, lubrication and screw loosening agent. Its outstanding affinity for metal makes it easy to remove even deeply rusted threaded fasteners. Furthermore, the lubrication properties reduce creaking of moving parts in machinery and appliance. It is odourless and CFC free.

- Agent for penetrative lubrication
- Moisture – repelling
- Anti rust protective agent for metal mould

Code	Packing
AU00275	400ml aerosol can

AU00275



Super Cleaner

Super Cleaner is a fast drying cleaning agent designed for cleaning of brake in automobiles and machinery parts. Remove dirt, grease and oil effectively. It's also commonly use in Plastic Moulding companies as a industrial cleaning agent for metal mould. Most importantly, it is environmental friendly and CFC free.

- Industrial cleaner for automobile and machinery parts
- Remove grease and oil effectively
- Rapid drying nature, assist in productivity

Code	Packing
AU00608	480ml aerosol can

AU00608



Super Glue

Super Glue is a heavy-duty instantaneous cyanoacrylate adhesive. The adhesive adheres strongly within a few seconds on almost all type of material. Low viscosity, easy application and usage ideal for bonding metals, glass, rubber, china wares, leather, wood & plastic materials.

- One drop permanently bonds metal, glass, rubber, wood, leather and plastic
- Bonding can be achieved within second
- Clean, non staining or messy
- Single drop hold up to 5000 lbs

Code	Packing
AU00283	3g blister packed tube

AU00283



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THREE BOND