

# HERME\*SEAL

## catalogue

**HERME\*SEAL** ●

● **ATOMOFEL**

**HERME\*TITE** ●

**HERME\*COAT** ●

● **HERME\*ZINC**

● **HERME\*LOCK**

● **HERME\*LOOSENINGOIL**

**NEOBOND** ●

● **HERME\*BOND**

● **HERME\*OILOUT**

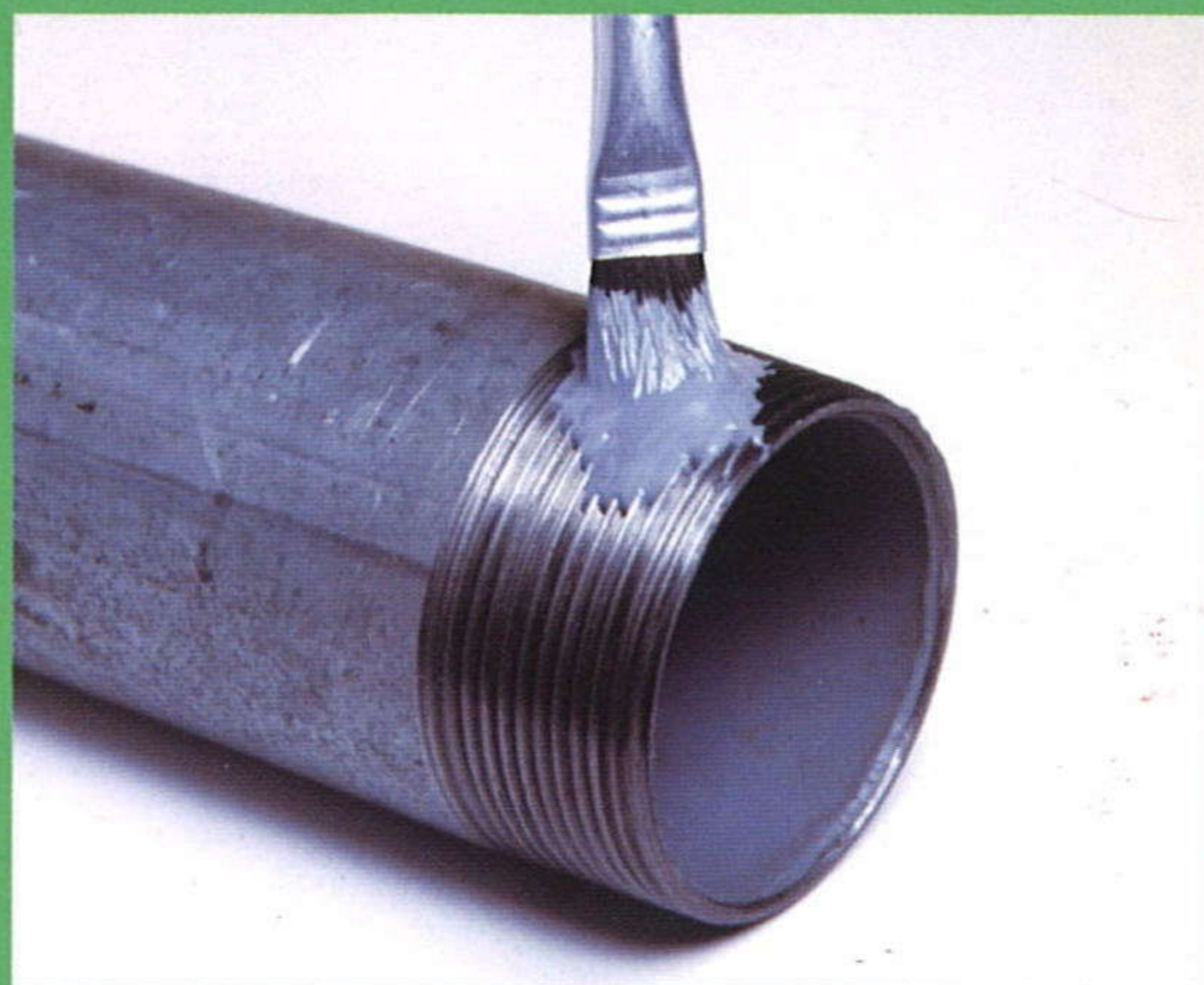


**NIHON HERMETICS CO., LTD.**

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SHINAGAWA-KU, TOKYO, 141- 0031, JAPAN

**“HERME\*SEAL”** is the latest sealing material called liquid gasket developed by NIHON HERMETICS CO.,LTD.

By simply applying **“HERME\*SEAL”** to the screws, joints, flange by brush, Leakage of water, gas, steam, oil may be prevented.



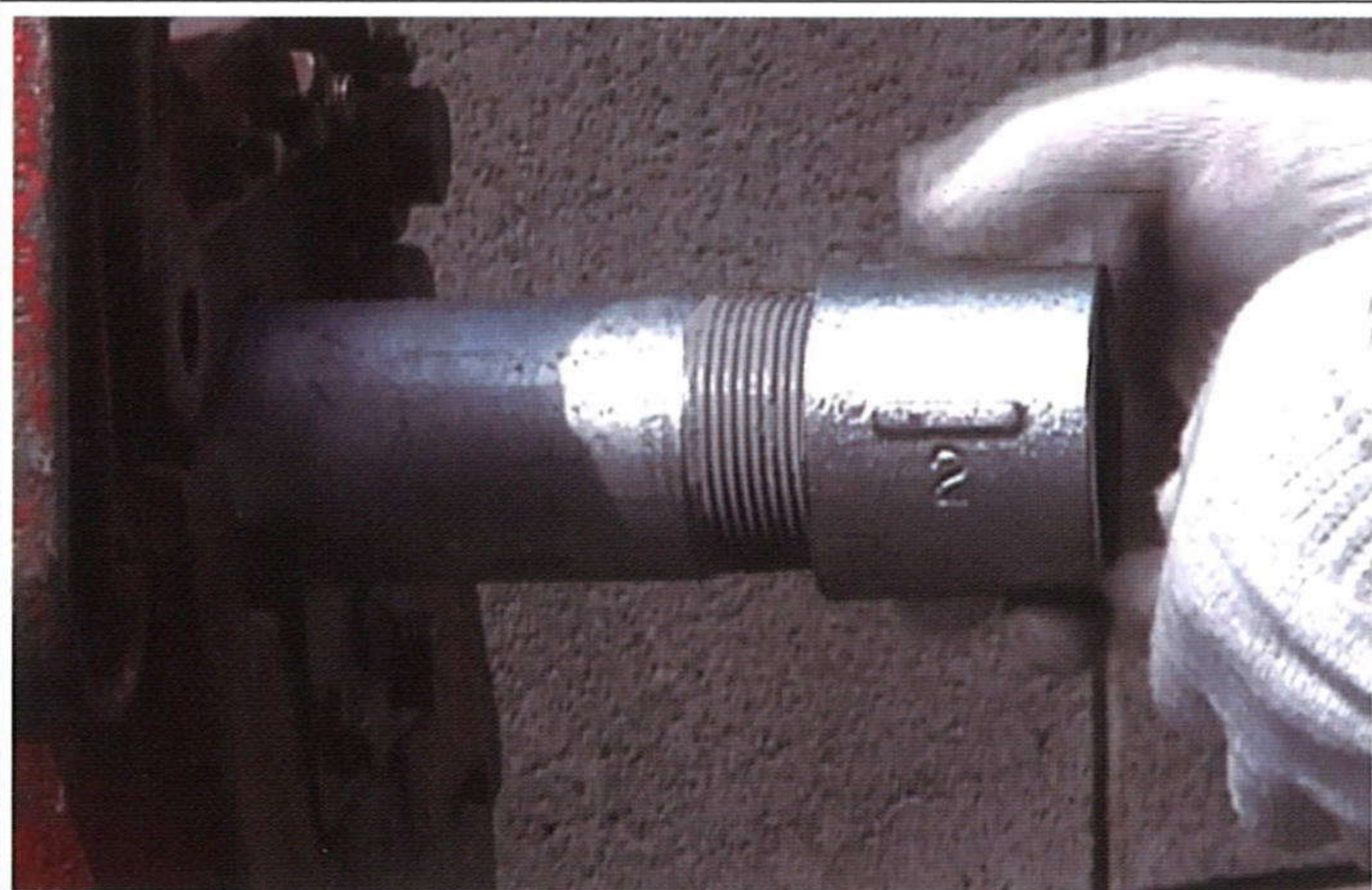
## How to Use **“HERME\*SEAL”**



### **Clean the threads**

Herme Seal is extremely water and oil resistant, and therefore it will not adhere if there is oil or water on the screw threads.

Remove oil, water, dust, screw-cutting dreg, etc. on the threads completely.



### **Brush on lightly**

Brush on lightly, so as to just fill in the threads (about 0.2-0.4mm). If you brush the seal on too heavily, when the pipes are joined, the sealing will be squeezed inside where it will stain the inner surface of the pipe or clog up the pipe cock.



### **After joining pipes, keep them as dry as possible.**

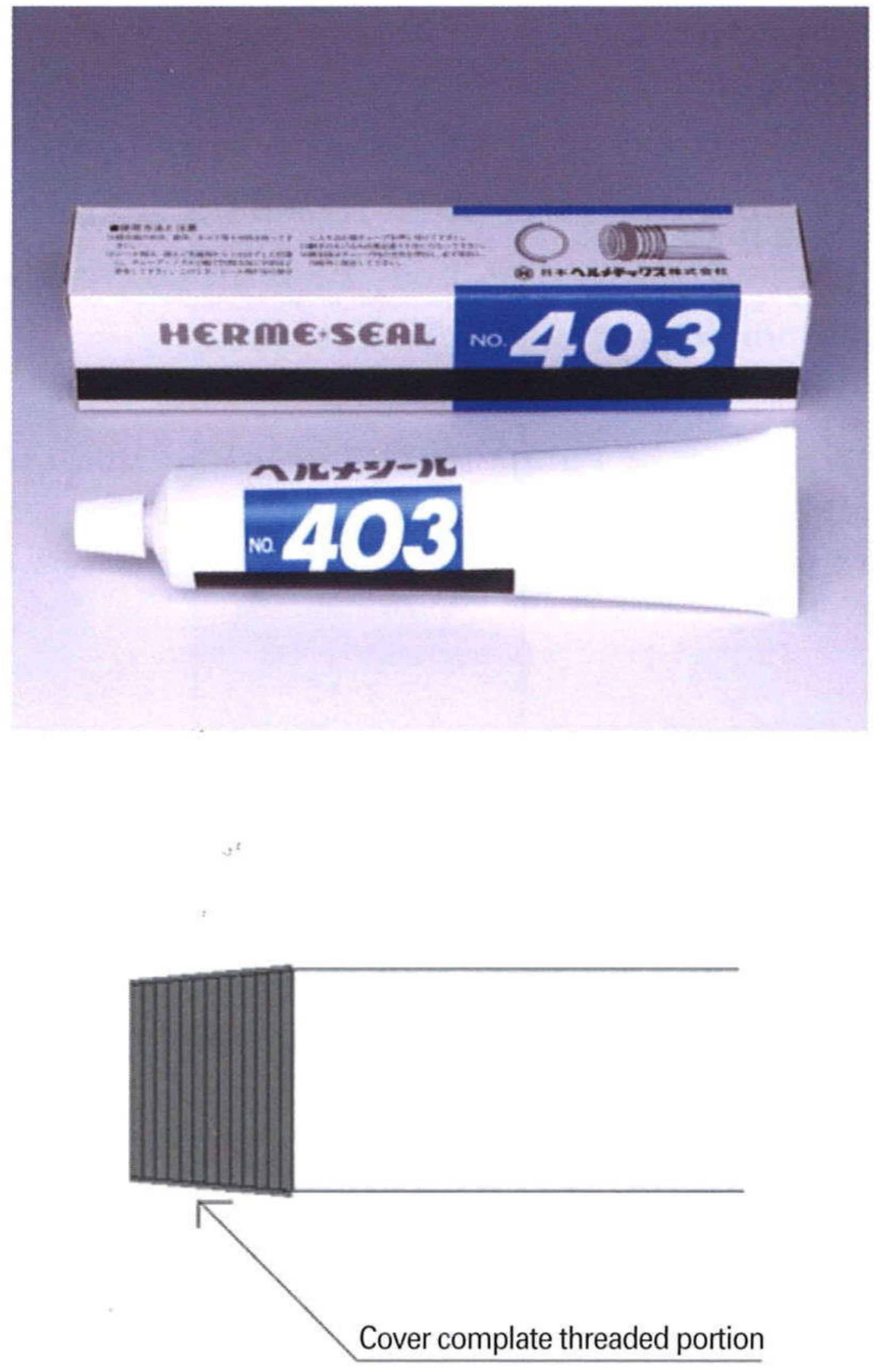
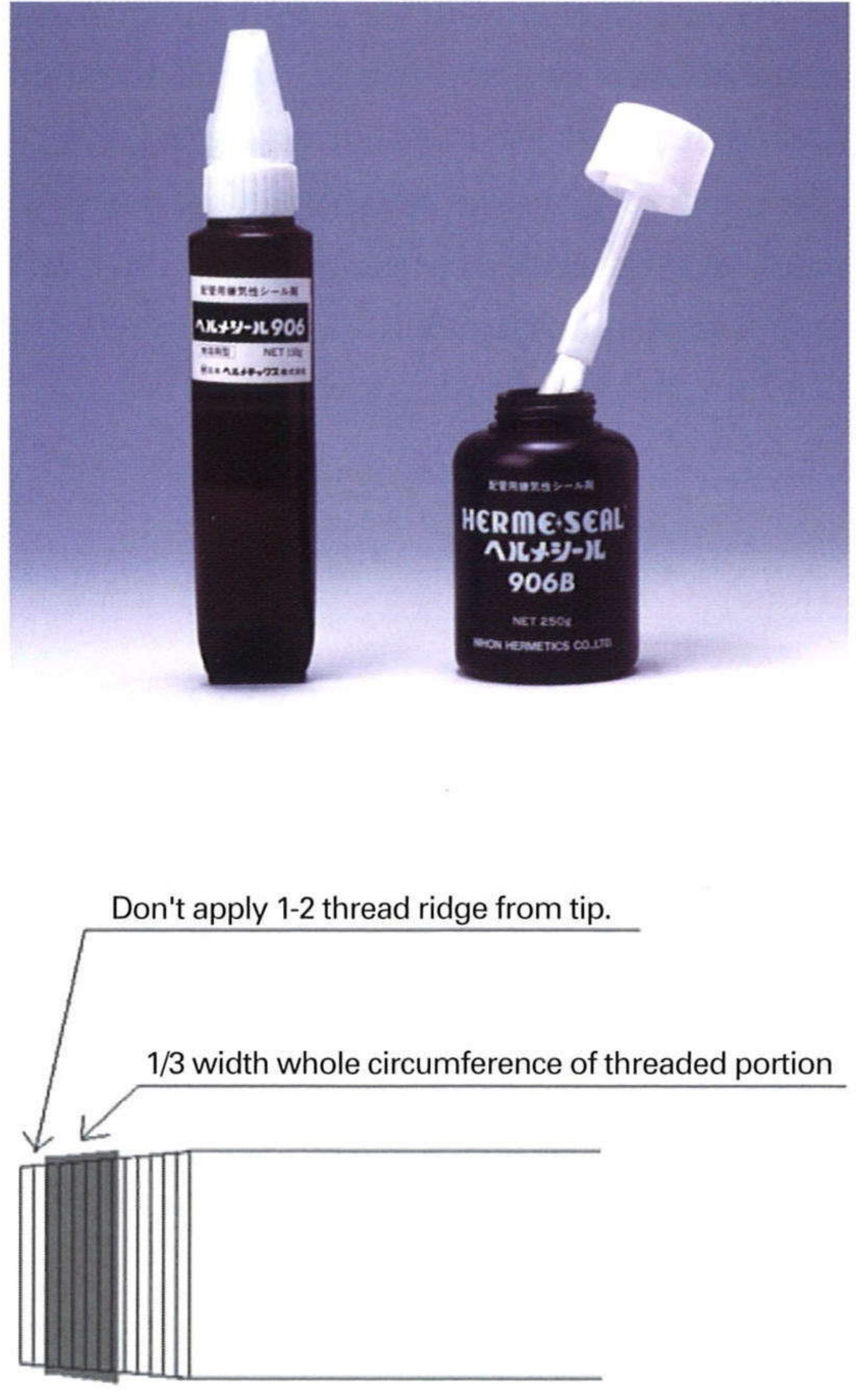
Herme Seal acts at its highest efficiency when it is completely dried and the solvent material is evaporated.

The pipes should be screwed together firmly, and after joining, they should be kept as dry as possible.

# Select the sealing best suited to your aims.

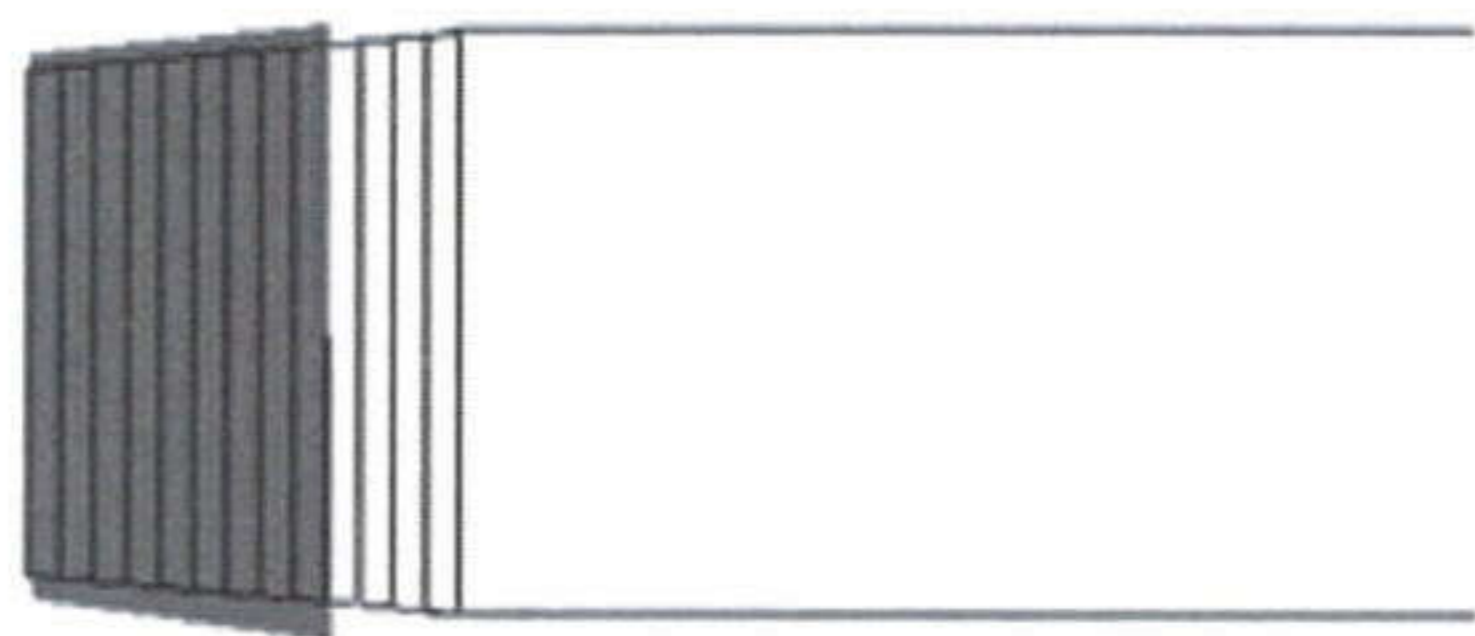
<p>For water pipes, Lined steel pipe</p> 	<p><b>HERME SEAL No.55 (Grey)</b>   <b>HERME SEAL No.88 (Grey)</b></p> <p>HERME SEAL No.55 is most suitable to anticorrosive sealing agent for lined steel pipe, such as hard polyvinyl chloride lined steel pipe, powdered polyethylene lined steel pipe. Excellent sealing of the screw portion, as well as heat resistance can be used in a wide variety of piping to hot water.</p> <p>Suitable product of Public building construction standard specifications (Ministry of Land, Infrastructure and Transport) Standardizes product of Japan Water Works Association (JWWA K146, K 142)</p>
<p>For gas pipes</p> 	<p><b>HERME SEAL No. G-1 (Grey)</b></p> <p>HERME SEAL No. G-1 show excellent sealing effect to Gas resistance, such as LPG (gas), city gas, natural gas, and is non-solvent non-drying sticky sealing agent with remarkable weather resistance.</p> <hr/> <p><b>HERME SEAL No. G-2 (Grey)</b></p> <p>HERME SEAL No. G-2 have excellent sealing effect to Gas resistance, such as LPG (gas), city gas, natural gas, and is semi-drying sticky sealing agent and it shows excellent sealing effect to LPG (liquid) resistance.</p>
<p>For pipes, general pipes</p> 	<p><b>HERME SEAL No. S-2 (Black)</b></p> <p>HERME SEAL No. S-2 is drying-and-hardening black sealing agent for general pipe, and has been used most successfully in piping sealing agent. It can be used to prevent leakage of general pipe for industrial water and drainpipe, etc. or joints and screw portion of machinery and equipment. It cannot be used for drinking water.</p>
<p>For steam pipes</p> 	<p><b>HERME SEAL No. H-2 (Black)</b></p> <p>HERME SEAL No. H-2 for steam pipe which reacts curing when heated and makes tough three dimensional structure film. It has excellent steam resistance and heat resistance (-30 ~ +200 °C). It show excellent sealing effect for steam pipes of various boilers or joint of equipment attached to boilers. It cannot be used for drinking water.</p>

# For multipurpose pipes

<p>Non-solvent anticorrosive sealant</p>	<p><b>HERME SEAL №403 (Grey)</b></p>
 <p>The image shows the packaging for HERME SEAL №403, including a box and a tube. Below the packaging is a diagram of a pipe with a shaded area representing the sealant application. An arrow points to this area with the text "Cover complete threaded portion".</p>	<p>HERME SEAL №403 is non-solvent anticorrosive sealing agent for stainless steel pipe and lined steel pipe.</p> <p>It is non-toxic, yet has excellent heat resistance (-50 – +200°C). (It cannot be used for steam pipe.)</p> <p>It shows excellent sealing effect on pipes for water supply, hot-water supply, kerosene, and antifreeze. Fluidity material and tube container which can be easily used till the end is very economical.</p> <p>Suitable product of Public building construction standard specifications (Ministry of Land, Infrastructure and Transport) Standardized product of Japan Water Works Association (JWWA K 146, K 142)</p>
<p>Anaerobic sealant</p>	<p><b>HERME SEAL №906B (Grey)</b></p>
 <p>The image shows two containers of HERME SEAL №906B: a spray bottle and a brush applicator. Below is a diagram of a pipe with a shaded area representing the sealant application. Two arrows point to the shaded area with the text "Don't apply 1-2 thread ridge from tip." and "1/3 width whole circumference of threaded portion".</p>	<p>HERME SEAL №906B is anaerobic sealing agent which we succeeded on brush type coating.</p> <p>It shows excellent effect in immediate sealing and has passed water quality standards which is suitable for multipurpose of metallic pipe such as sprinkler pipe, indoor-outdoor fire hydrant pipe, large diameter, oil pressure, high pressure pipe or water supply, hot water supply, cold and hot water, hot water, oil, air, antifreeze.</p> <hr/> <p><b>HERME SEAL №906 (Grey)</b></p> <p>HERME SEAL №906 is the tube container type of HERME SEAL №906B.</p>

# For multipurpose pipes

## Non-solvent sealant



Apply to 2/3 width of threaded portion

## HERME SEAL N<sup>o</sup>H-260 (Grey)

HERME SEAL N<sup>o</sup>H-260 has excellent heat resistance and chemical resistance so it can be used in wide range of piping, since it has wide range of heat and chemical resistance.

(Temperature -30 to +260°C / Steam temperature up to +150°C)

This is a non-solvent type that does not contain organic solvent so it will not be hazardous material for "Fire Service Act" and "Ordinance on Prevention of Organic Solvent Poisoning".

It is non-drying type therefore you can save construction time.

Do not use in potable water.

## Thread sealant



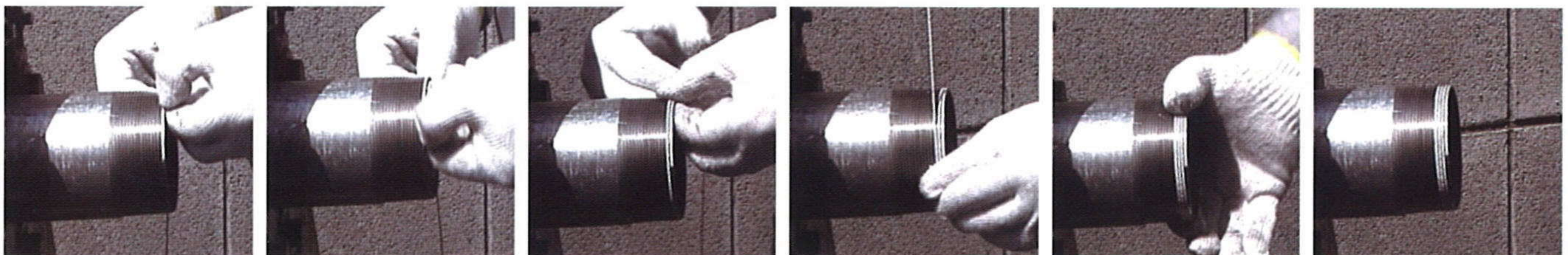
## HERME SEAL SUPER α

This is a thread sealing type that can be used by only wrapping it to the screw groove of the pipe that will act immediately.

It can be used in various type of screw pipe (ex. Fluid, Liquid, Gas, etc.)

Sanitary proof so it irrelevant to "Sick House", "Environmental Hormone", "Fire Service Act" and "Industrial Safety and Health Law".

It is an ideal seal for stainless steel pipe.



# CLASSIFICATION OF HERME SEAL

Category	Characteristic item	HERME SEAL №88	HERME SEAL №55	HERME SEAL №403	HERME SEAL №906
Principal usage	Type of pipe	Water piping, Lined steel piping	Water piping, Lined steel piping	Multipurpose piping	Multipurpose piping
General characteristic	Color / Type	Grey / liquid	Grey / liquid	Grey / paste	Grey / paste
	Film characteristic	Drying and hardening	Drying and hardening	Elastic	Elastic
	Viscosity at 25°C	5,000mPa · s	4,500mPa · s	70,000mPa · s	27,000mPa · s
	Specific gravity at 25°C	1.4	1.2	1.0	1.1
	Nonvolatile content	68 ± 3 %	62 ± 3 %	100%	100%
Temperature range	Maximum	85°C	95°C	200°C	150°C
	Minimum	-30°C	-30°C	-50°C	-80°C
Water pressure resistance	25A piping at 25°C	4.9MPa	4.9MPa	4.9MPa	4.9MPa
Chemical characteristic	Water	◎	◎	◎	◎
	Hot water	◎	◎	◎	◎
	Kerosene	—	—	◎	◎
	Gas oil	—	—	○	◎
	Antifreeze(50%)	—	—	◎	◎
	Nitrogen gas	—	—	◎	◎
	Vapor(150°C)	×	×	×	×
Others	Shelf life	One year	One year	One year	One year

◎:Most available ○:Available ×:Unavailable

# CLASSIFICATION OF HERME SEAL

Category	Characteristic item	HERME SEAL N°S-2	HERME SEAL N°H-2	HERME SEAL N°H-260	HERME SEAL N°G-1	HERME SEAL N°G-2
Principal usage	Type of pipe	General piping	Steam piping	Multipurpose piping	Gas piping	Gas piping
General characteristic	Color / Type	Black / liquid	Black / liquid	Grey / liquid	Grey / liquid	Grey / liquid
	Film characteristic	Drying and hardening	Drying and hardening	Non-drying and sticky	Non-drying and sticky	Semi-drying and sticky
	Viscosity at 25°C	3,000mPa · s	18,000mPa · s	60,000mPa · s	30,000mPa · s	40,000mPa · s
	Specific gravity at 25°C	1.2	1.4	1.4	1.6	1.6
	Nonvolatile content	70 ± 3 %	70 ± 3 %	100%	100%	93 ± 3 %
Temperature range	Maximum	85°C	200°C	260°C	50°C	70°C
	Minimum	-40°C	-30°C	-30°C	-30°C	-40°C
Water pressure resistance	25A piping at 25°C	4.9MPa	4.9MPa	4.9MPa	0.98MPa※	0.98MPa※
Chemical characteristic	Water	◎	○	◎	—	—
	Hot water	○	○	◎	—	—
	Gas oil	○	○	○	—	○
	Kerosene	○	○	○	—	○
	LPG(gas)	—	—	◎	◎	◎
	City gas	—	—	◎	◎	◎
	LPG(liquid)	—	—	◎	×	◎
	Vapor(150°C)	—	◎(200°C)	◎	—	—
Others	Shelf life	One year	One year	One year	One year	One year

◎:Most available ○:Available ×:Unavailable ※:Air pressure resistance

Anticorrosive  
**HERME SEAL №30-V (Grey)**



HERME SEAL №30-V is quick drying rust-preventative seal which protects cutting plane of the pipe.  
It can save large amount of time for coating and painted surface will be smooth.

It also can be used as anti-corrosion of cutting plane of piping of housing type joint, cutting plane of piping of drain piping flexible joint (MD joint).

It has approved quality of Waterworks of law.

Suitable product of Public building construction standard specifications (Ministry of Land, Infrastructure and Transport)

JPF MP 006 (housing type joint)

Passed salt spray test.

Water hardenable filler adhesive agent  
**HERME BOND №W**



HERME BOND №W is two-component putty adhesive agent which is epoxy resin composition that is suitable for applying in high humidity wet surface or in water.

It can seal/adhere by not carrying out any substance to the water.

It can be used for Hume pipe, wet surface such as Polyvinyl chloride, crack in water, padding of leak, repair filling, and adhesion.

Combination ratio of main agent and curing agent is 1:1.

Pot life : 25 minutes (20°C)

Curing time : 3-4 hours (20°C)



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