

Foreverseal®

HANGZHOU FOREVER PLASTICS CO., LTD



Foreverseal®

杭州福沃塑胶制品有限公司
HANGZHOU FOREVER PLASTICS CO., LTD

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www.foreverseal.com



Pipe Thread Sealing



Since 2009
You smile, we smile,
all world smile

WELCOME TO FOREVERSEAL

Forever **Seal**
Built to Perform.

Forever **Real**
Committed to Quality.

Forever **Deal**
Partnerships That Last.

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COMPANY CULTURE



Founder's Motto

“Remember our yesterday,
today and tomorrow”

Don't forget the mistakes we made yesterday, figure out what we're
doing today, make the plans happen tomorrow.

Trust the power of trust.

CEO

Li Dong Sun



Foreverseal is more than a team — it's a family. Every achievement we make carries
the effort, trust, and passion of all our people.

Foreverseal®

COMPANY HISTORY

2009

Hard start

FOREVERSEAL was established on June 29, 2009, by renting an 800 m2 workshop to begin PTFE TAPE production. Despite launching during the global financial crisis, the mission was clear: 'It's crisis, it is life!'



2010

Development

With strong support from the local government, FOREVERSEAL secured a permanent booth at the Canton Fair. This laid the foundation for our global presence through face-to-face interactions with clients.



2012

Rapid Growth

Sales performance hit a new high. On June 29, we achieved UL certification, opening doors to the North American market. The company officially targeted the mid- to high-end segments.



2014-2015

Upgrade

R&D over the years led to the introduction of automatic cutting and rewinding machines, improving both efficiency and quality.

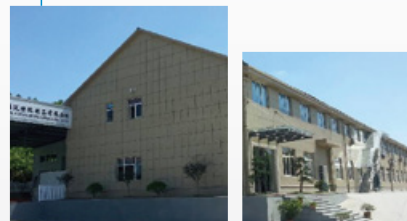
In November 2014, we obtained CE EN751-3 certification, reinforcing our European market strength.



2013

First New Plant

On January 31, we moved to our newly built facility in Hangzhou, covering 5000 m² of land and 4500 m² of plant space. It marked a key milestone toward long-term stability.



2019

10th Anniversary

In June 2019, Foreverseal marked its 10th anniversary with a company trip to Beijing, celebrating our team's dedication and shared growth.

Mid-year, we invested RMB 3 million in nine fully automated injection molding machines, improving component precision and reducing labor costs by 50%.



2018

Second New Plant

On January 1, we relocated to a larger, modern facility in Linglong Industrial Zone (9000 m²). The new space significantly increased our production capacity.

That same month, we received WRAS certification, verifying product safety for drinking water pipelines.



2024

German Certification

In December, our green PTFE TAPE passed BAM testing for oxygen pipelines, paving the way for a new market segment. We also established a partnership with CHART at the same time.

In April 2024, our PTFE TAPE successfully achieved German DVGW certificate - a critical market access requirement for gas and water applications in Germany.



2025

Australia Certification

In August 2025, our yellow PTFE tape received AGA gas certification in Australia, laying the foundation for further market expansion.



The Story Continues...

2020-2023

New product

During COVID, Foreverseal invested RMB 10 million in advanced Western equipment for ePTFE film. After three years of R&D, our high-performance film is now widely used by top military cable manufacturers for low-loss, phase-stable applications.



About us

16⁺ Years

Manufacturing Experience

60⁺

Members Employees

9000 m²

Plant Area

88⁺

Countries All Over The World

420⁺

Members Customers

Founded in 2009, Foreverseal is a leading manufacturer of PTFE tape in China, specializing in the development, production, and sales of sealing solutions for a wide range of applications, including water supply and drainage systems, HVAC systems, gas systems, and other fluid control systems.

With a skilled engineering team and over 60 dedicated employees, Foreverseal continuously invests in R&D and automation to improve quality, consistency, and efficiency. As a result, we are trusted by partners and favored in high-end markets.

Our PTFE tapes are rigorously tested and certified by UL, CE, WRAS, DVGW, ACS, BAM, and AGA, reflecting our strong commitment to safety, reliability, and quality.

Beyond PTFE tape, Foreverseal now offers thread sealing cords and sealants —innovative solutions that have been well received by the market. We continue to focus on sealing technology, providing reliable and complete solutions for our customers.

We may not be the biggest — but we are proud to be the most dependable and professional partner you need in the Sealing industry.

RELIABLE SEALING STARTS HERE.

**We believe that quality is not just a requirement
— it's our responsibility.**

“ At Foreverseal, quality is more than a requirement — it's a responsibility we take seriously. From raw material selection to final packaging, every step is carefully controlled to ensure precision, durability, and reliability in every product.

01 Before Production

- Confirm spool and cover color, printing, and material accuracy
- Check all packaging materials for consistency and quality

02 During Production

- Monitor width, thickness, length, and density to meet international standards
- Conduct 5% random inspections throughout the process
- Provide a QC report for every order
- Retain samples for up to 3 years for full traceability

03 After Production

- Confirm quantity and packaging before shipment

”

Length tester

Pressure tester

Tensile Strength tester

Thickness tester

Weight tester

QUALITY

BAM

AGA

UL

CE

WRAS

DVGW

ACS

RoHS

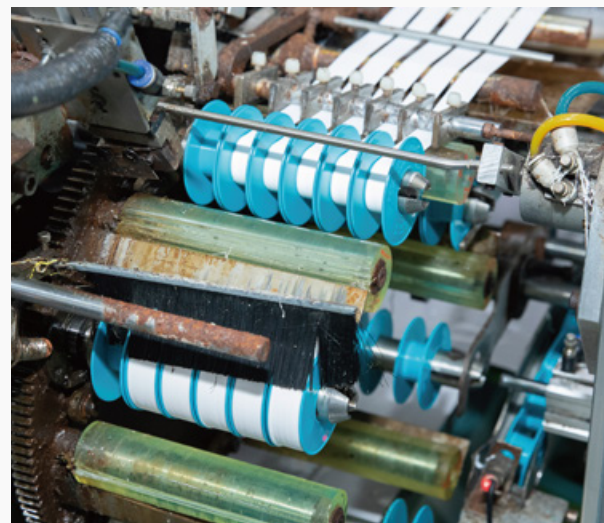
ISO 9001

Reach



PERFECTION IN
EVERY WAY

Foreverseal®



With a 10,000-square-meter facility, advanced equipment, and a skilled R&D team, Foreverseal specializes in high-performance sealing products. We apply Total Quality Management and adhere strictly to ISO 9001:2000 standards, ensuring that quality is built into every step of the manufacturing process.

QUALITY ISN'T
A CHOICE
IT'S OUR WAY OF LIFE

CERTIFICATION AND APPROVAL

Foreverseal®



● UL (1321 / 746A)



● WRAS (BS6920)



● DVGW (DIN EN 751-3)



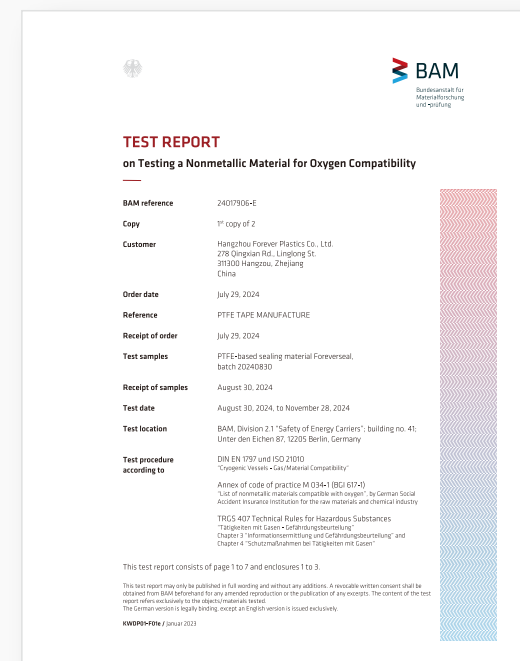
● AGA (AS4623-2008)



● ACS



● CE



● BAM (DIN EN 1797)



● ISO9001



PTFE THREAD SEAL TAPE / TEFLON TAPE



PTFE Thread Seal Tape, also known as Teflon tape, is a high-performance sealing material widely used in plumbing, gas, oil, and industrial piping systems. Manufactured from 100% pure polytetrafluoroethylene (PTFE), our tape provides excellent chemical resistance, high temperature tolerance, and superior sealing capability. It ensures leak-proof joints on threaded connections and is easy to apply, non-hardening, and non-toxic. Available in various densities, thicknesses, widths, and colors to meet international standards and customer-specific needs, our PTFE tape is your reliable choice for efficient and secure sealing solutions.

Classification by Density

Quality & responsibility

PTFE Thread Seal Tape is commonly classified by its density, which directly affects its performance, application, and durability. Choosing the appropriate density ensures optimal sealing performance for specific applications, preventing leaks and extending service life.

The typical classifications include:

1. Standard density: _____ 0.25g/cm³---0.35g/cm³
2. Medium density: _____ 0.35g/cm³---0.80g/cm³
3. High density: _____ 0.80g/cm³---1.50g/cm³

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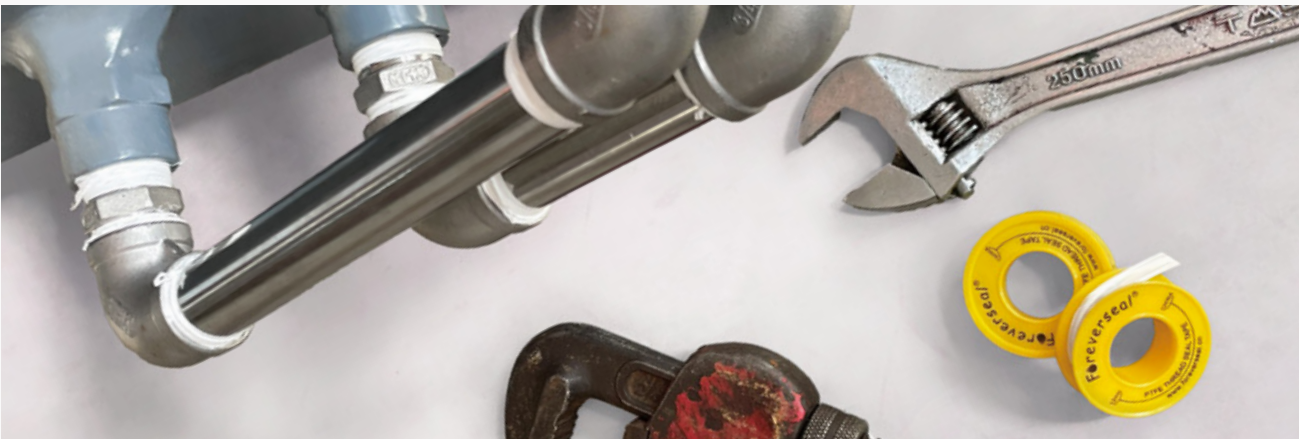
FEATURES & BENEFITS

Quality & responsibility

- ✓ High temperature resistance (up to 260°C / 500°F)
- ✓ Excellent chemical resistance
- ✓ Low friction, non-stick surface
- ✓ Superior electrical insulation
- ✓ Non-aging and durable performance

DIRECTIONS for Use:

Quality & responsibility



- 01** Clean Threads Ensure male threads are clean and dry. Remove dirt, oil, or debris.
- 02** Wrap Tape Start at the pipe end, leaving the first 1–2 threads uncovered. Wrap in the thread direction (usually clockwise).
- 03** Apply Tension Stretch tape slightly as you wrap for a snug fit.
- 04** Overlap Wraps Wrap 2–4 times, overlapping each layer by half the tape width
- 05** Finish: Tear the tape and press the end firmly onto threads.
- 06** Assemble: Screw fittings together by hand, then tighten with a wrench for a leak-proof seal.

STORAGE & FLAMMABILITY

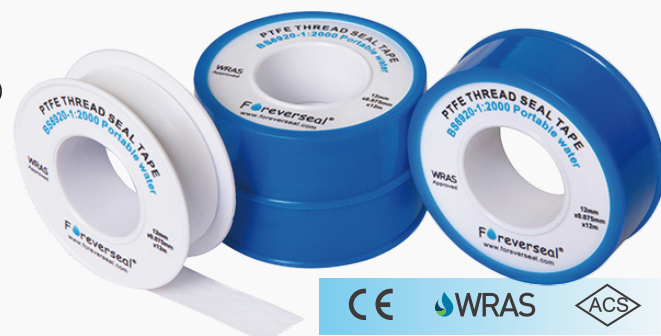
Quality & responsibility

Unlimited shelf life (less than 28°C / 82.4°F recommended)/50% relative humidity out of direct sunlight.
Non-flammable

WHITE STANDARD PTFE TAPE

Usually with a density below 0.35 g/cm³, this type is soft, flexible, and economical. It is suitable for general-purpose sealing in non-critical applications such as water pipes and household plumbing.

Density:	0.25g/cm ³ to 0.35g/cm ³
Width:	12mm(1/2") 19mm(3/4") 25mm(1")
Thickness:	0.075mm, 0.1mm, 0.2mm
Length:	8-50m
Composition:	100% pure PTFE
Temp.Range:	-190°C to +260°C(-310°F to +500°F)
Tensile Strength:	8MPa
Elongation:	Min 25%



Applications:

- Low-pressure water pipes
- Non-critical sealing applications
- Household plumbing systems
- General-purpose economical sealing

WHITE MEDIUM PTFE TAPE

With a density between 0.35–0.8 g/cm³, it offers a good balance of strength and sealing ability. It is widely used in residential, commercial, and light industrial applications.

Density:	0.35g/cm ³ to 0.80g/cm ³
Width:	12mm(1/2") 19mm(3/4") 25mm(1")
Thickness:	0.075mm, 0.1mm, 0.2mm
Length:	8-50m
Composition:	100% pure PTFE
Temp.Range:	-190°C to +260°C(-310°F to +500°F)
Tensile Strength:	8MPa
Elongation:	Min 25%



Applications:

- Residential & commercial piping systems
- Medium-pressure fluid systems
- Light industrial applications
- Sealing for balanced strength & adaptability

WHITE HIGH DENSITY PTFE TAPE

Density typically above 0.8 g/cm³, providing superior sealing performance, durability, and resistance to pressure and chemicals. It is ideal for demanding environments such as gas, oil, and industrial piping systems.

Density:	0.80g/cm ³ to 1.50g/cm ³
Width:	12mm(1/2") 19mm(3/4") 25mm(1")
Thickness:	0.075mm, 0.1mm, 0.2mm
Length:	10m,12m(customization)
Composition:	100% pure PTFE
Temp.Range:	-190°C to +260°C(-310°F to +500°F)
Tensile Strength:	12MPa
Elongation:	Min 50%



Applications:

- Oil & gas pipeline systems
- Chemical processing equipment
- Extreme temperature/pressure environments
- High-pressure industrial process lines
- Critical infrastructure piping

YELLOW GAS PTFE TAPE

Yellow Gas PTFE Tape is a high-density PTFE thread seal tape specifically designed for gas system applications. It ensures a strong, durable, and leak-free seal for threaded connections in natural and fuel gas pipelines.

Density:	0.80g/cm ³ to 1.50g/cm ³
Width:	12mm(1/2") 19mm(3/4") 25mm(1")
Thickness:	0.1mm/0.004"
Length:	10m,12m(customization)
Composition:	Min. 99% virgin PTFE, Max. 1% pigment
Temp.Range:	-190°C to +260°C(-310°F to +500°F)
Tensile Strength:	12MPa
Elongation:	Min 50%



Applications:

- Natural gas / LPG systems
- HVAC systems
- Residential and commercial gas installations
- Gas pipeline and appliance fittings
- Industrial gas and heating equipment

PINK PLUMBER LINE THREAD SEAL TAPE

Pink Plumber Line Thread Seal Tape is a full density thread seal tape for used with piping in air,water,sewage,hydraulic lines and sprinkler systems.

Density:	0.80g/cm ³ to 1.50g/cm ³
Width:	12mm(1/2") 19mm(3/4") 25mm(1")
Thickness:	0.1mm/0.004"
Length:	10m,12m(customization)
Composition:	Min. 99% virgin PTFE, Max. 1% pigment
Temp.Range:	-190°C to +260°C(-310°F to +500°F)
Tensile Strength:	12MPa
Elongation:	Min 50%



UL Mfr. Spec T-27730A

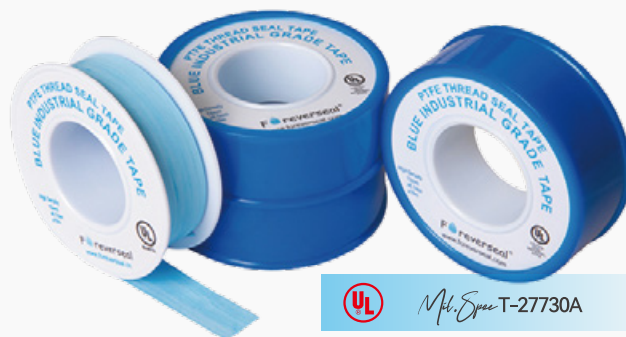
Applications:

- Ideal for sealing metal
- Plastic threaded pipes in potable water systems
- Hot/cold water lines
- General plumbing installations

BLUE INDUSTRIAL THREAD SEAL TAPE

Blue Industrial Thread Seal Tape is engineered for demanding industrial applications where strong, durable, and chemical-resistant sealing is essential. Made from high-purity PTFE, this tape ensures excellent sealing performance on threaded metal or plastic pipes, especially in environments involving high pressure, aggressive chemicals, or extreme temperatures.

Density:	0.80g/cm ³ to 1.50g/cm ³
Width:	12mm(1/2") 19mm(3/4") 25mm(1")
Thickness:	0.1mm/0.004"
Length:	10m,12m(customization)
Composition:	Min. 99% virgin PTFE, Max. 1% pigment
Temp.Range:	-190°C to +260°C(-310°F to +500°F)
Tensile Strength:	12MPa
Elongation:	Min 50%



UL Mfr. Spec T-27730A

Applications:

- Ideal for use in chemical plants, refineries
- Critical pipelines
- Water treatment systems

GREEN OXYGEN LINE PTFE TAPE

Green Oxygen Line PTFE Tape is specifically formulated for use in oxygen service lines and other high-purity gas systems.

Density:	0.80g/cm ³ to 1.50g/cm ³
Width:	12mm(1/2") 19mm(3/4") 25mm(1")
Thickness:	0.1mm/0.004"
Length:	10m,12m(customization)
Composition:	Min. 99% virgin PTFE, Max. 1% pigment
Temp.Range:	-190°C to +260°C(-310°F to +500°F)
Tensile Strength:	12MPa
Elongation:	Min 50%



UL BAM ISO 21010

Applications:

- Ideal for oxygen pipelines
- Medical gas systems
- clean gas connections
- Welding equipment

GRAY STAINLESS STEEL ANTI-SEIZE PTFE TAPE

Gray Stainless Steel Anti-Seize PTFE Tape is specially developed for use on stainless steel and other metal threaded connections where galling.

Density:	0.80g/cm ³ to 1.50g/cm ³
Width:	12mm(1/2") 19mm(3/4") 25mm(1")
Thickness:	0.1mm/0.004"
Length:	10m,12m(customization)
Composition:	Min. 99% virgin PTFE, Max. 1% pigment
Temp.Range:	-190°C to +260°C(-310°F to +500°F)
Tensile Strength:	12MPa
Elongation:	Min 50%



UL Mfr. Spec T-27730A

Applications:

- Ideal for stainless steel fittings in chemical plants
- High-temperature or high-pressure pipelines
- Marine environments

「THREAD SEALING CORD」

The Smart Alternative to PTFE Tape



Common Length: 20m, 50m, 150m, 160m (customization)

- ✓ **Reliable Sealing.**
- ✓ **Clean Finish.**
- ✓ **Professional Performance.**

Thread sealing cord is a new, faster, versatile solution for sealing both metal and plastic pipe threads and fittings. It requires no curing time and delivers an instant, full-pressure seal—making it the ideal choice for quick and dependable assembly. It is dispensed directly onto threaded components from a convenient storage container, which also serves as the applicator. It's recommended for sealing tapered threads up to 4" NPT in both aqueous and non-aqueous systems. Perfect for industrial use, especially in applications requiring immediate pressure testing or minor adjustments after assembly. Suitable for temperatures up to 149°C.

TYPICAL APPLICATIONS

Quality & responsibility



- Plumbing & sanitary systems
- HVAC and refrigeration lines
- Industrial fluid pipelines
- Gas and fuel installations
- Marine and offshore equipment
- Agricultural irrigation systems

FEATURES & BENEFITS

Quality & responsibility

- ✓ **Universal Application** – Compatible with metal and plastic threads
- ✓ **Temperature Resistant** – Withstands -30°C to +149°C
- ✓ **High Pressure Rated** – Up to 10000 psi sealing capability
- ✓ **Non-Hardening** – Allows for easy disassembly and re-adjustment
- ✓ **Clean and Precise** – Eliminates over wrapping and mess

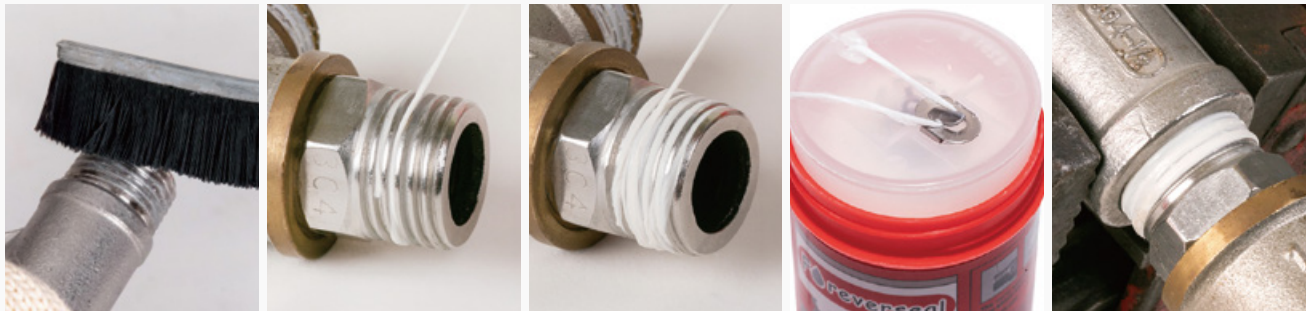
TECHNICAL DATA

Quality & responsibility

1	Composition	Poly fiber thread with inert proprietary paste
2	Appearance:	White color, coated wet cord
3	Odor:	Slight, Acrylic
4	Boiling Point (°C)	150
5	Specific Gravity (g/m)	1.25
6	Coating Weight, g/m	0.54 to 0.74
7	Working Temperature (°C)	-30 to +149
8	Working Pressure (psi)	≤ 10000
9	Max Thread Specification	4"
10	Length Tolerance	+/-5%

DIRECTIONS for Use

Quality & responsibility



- 01

Clean the Threads Use a wire brush to thoroughly clean both the male and female threads before applying the sealing cord
- 02

Start the Wrap Hold the end of the sealing cord on the male thread, about two threads back from the end.
- 03

Wrap the Cord Wind the cord around the threads in the direction of the thread spiral, starting from the pipe end. For best results, fill the thread grooves evenly without completely covering the thread profile. (Refer to the below form)
Note: It is not necessary to follow the valley of the thread.

Pipe Diameter	Number of turns (wraps)	
	Composition	Plastics
1/2 "	6 - 8	12-15
3/4 "	7 - 9	15-25
1 "	8 -12	20-30
1/2 "	10 -15	25-35
2 "	15 - 25	
2 1/2 "	20 - 30	
3 "	25 - 35	
3 1/2 "	30 - 40	
4 "	35 - 45	

- 04

Cut and Press Down Cut the cord using the built-in cutter, then press the loose end down smoothly onto the thread.
- 05

Assemble and tighten the joint Assemble the joint with standard tools and tighten the joint. The joint can be adjusted up to 45° after assembly without compromising the seal.

Quality & responsibility

STORAGE

- ① Optimal Storage: 8°C (46.4°F) to 28°C(82.4°F)
(Below 8°C or above 28°C can adversely affect product properties)
- ② Keep in a cool, well ventilated area away from heat, sparks and open flame.
- ③ Keep container tightly closed until ready for use.
- ④ Keep away from children.
- ⑤ Shelf life: 2 years.

「PIPE THREAD SEALANT」

Reliable Sealing for Metal Pipe Threads



Common Size: 50ml, 250ml (customization)

High-performance anaerobic adhesive for leak-proof connections.

Pipe Thread Sealant also named Liquid Teflon, is a high-quality anaerobic adhesive designed to seal and lock metal threaded connections. It cures in the absence of air and in the presence of metal, forming a durable, chemical-resistant seal that prevents leakage of gases and liquids. It is ideal for sealing against gases, water, LPG, hydrocarbons, oils, and other chemicals, and its excellent thixotropic property prevents migration of the sealant before or during curing.

FEATURES & BENEFITS

Quality & responsibility

- ☒ Mainly use metal Thread with superior sealing performance
- ☒ Excellent Chemical Resistance, prevents leakage of water, gas, oil, and other fluids
- ☒ Cures in confined metal threads without oxygen, the curing speed is proportion to metal by active and temperature .
- ☒ High pressure and temperatance, corrosion resistance
- ☒ Excellent shock resistance
- ☒ Easy to apply, no mixing required

DIRECTIONS for Use

Quality & responsibility



- 01
- Clean threads thoroughly with wire brush and cleaning solvent.
- 02
- Apply a 360° bead of product to the leading threads of the male fitting, leaving the first thread free. Force the material into the threads to thoroughly fill the voids. For bigger threads and voids, adjust product amount accordingly and apply a 360° bead of product on the female threads also.
- 03
- Assemble parts and tighten to the required torque and hold on for 24 hours at 22-24°C to ensure full curing.
- 04
- Wait for curing before pressurizing system.

FOR DISASSEMBLY

Quality & responsibility

Use hand tools to remove mating parts. When it is hard to disassemble at room temperature, apply local heat until reaching 250°C and disassemble while hot. Then, remove any residual cured adhesive mechanically and clean parts with a proper solvent, acetone.

STORAGE

Quality & responsibility

- ①
- Stored in cool and dry location in unopened original containers at 8 ~ 21°C (optimal range) and avoid to contact with direct sunlight.
- ②
- Storage below 5°C and above 30°C can negatively affect product properties.
- ③
- Material removed from its original container can be contaminated during usage which affects both adhesive performance and storage life. Therefore, do not return contaminated product to the original container.

TECHNICAL DATA

Quality & responsibility

1. Composition	Methacrylate (Anaerobic)
2. Color	Blue
3. Viscosity	7000 ~ 15000 Mpa.s
4. Specific Gravity	1.03
5. Flash Point	>93°C
6. Gap filling	Up to 0.2mm
7. Broken torque	10–20 N.m (depending on grade)
8. Handling Cure Time	4-30 minutes
9. Average Functional Cure Time	1-3 hours
10. Full curing time	8 to 12 hours
11. Working Temperature	-50°C to +150°C
12. Shelf Life	2 years

“PTFE Tape VS Thread Sealing Cord VS Pipe Thread Sealant ”

Product Type	Ease of Use	Sealing Performance	Removability	Temperature Resistance	Pressure Resistance	Material Compatibility
PTFE Tape	★★★★☆	★★★★☆	★★★★☆	★★★★★	★★★☆☆	Metal / Plastic
Thread Sealing Cord	★★★★★	★★★★☆	★★★★★	★★★★☆	★★★★☆	Metal / Plastic
Pipe Thread Sealant	★★★★☆	★★★★★	★★★☆☆	★★★★☆	★★★★★	Mainly Metal

We recommend suitable options based on each product's performance and customer needs as below:

Application Scenario	Recommended Product
Economic, quick install, low-pressure plumbing	☒ PTFE Tape
Reliable sealing with re-usability, removability	☒ Thread Sealing Cord
High-pressure, extreme conditions, Anti-vibration	☒ Pipe Thread Sealant



Why Choose Foreverseal?

Premium Raw Materials

We use high-quality PTFE from top Chinese suppliers like Shandong Dongyue and Zhejiang Juhua, ensuring stable and reliable performance.

Advanced Automation

Large-scale use of precision automated machinery guarantees consistent quality, high efficiency, and on-time delivery.

Strict Quality Control

Our production process includes five quality checks from start to finish, resulting in a pass rate of over 98%.

Factory-Direct Pricing

Competitive pricing with no compromise on quality helps our partners stay ahead in their markets.

16+ Years of Experience

With over 16 years in PTFE tape manufacturing, we understand market demands and customer expectations worldwide.



Trusted by 420+ clients in 88+ countries.