



BLUE 75™ THREAD SEALANT

BLU-2-0200

Formulated, Designed & Tested for Plastic Piping Products



While many thread sealants and pipe joint compounds claim to be suitable for use with plastics, several have been found to produce stress cracking due to chemical incompatibility. Improper application of TFE tape sealants can result in over-stressed threaded connections and potential joint failures. Research has proven Spears® BLUE 75™ thread sealant to be the superior choice for reliable joint make-up of all Spears® thermoplastic piping products.

Non-Hardening, Lubricating Anti-Seize Formulation

Spears® BLUE 75™ is a special formulation which remains usable to -50° F. Partial containers remains usable for years when properly stored. Wipes clean from hands or tools with a dry rag for up to 15 minutes after applications. Anti-seize properties allow easy assembly and positive seal without over tightening.

Safe, nontoxic, Lead & Silicon Free

Spears® BLUE 75™ is NSF® tested and Certified safe for use with potable water. Will not transfer taste or odor to the sealed system.

Non-Corrosive, Non-Conductive

Promotes the advantages found with the use of thermoplastic piping components for a broad range of applications, easy maintenance and long system life.

Convenient Packaging Availability

Spears® BLUE 75™ is available in 1/4 pint, 1/2 pint, 1 pint and 1 quart metal cans with brush top applicators.

Specially Designed for Spears® Threaded Fittings & Valves

Spears® BLUE 75™ is recommended for use with all Spears® thermoplastic piping system components, including PVC and CPVC products, CPVC fire sprinkler products, CPVC CTS (Copper-Tube-Size) products and Spears® plastic-to-metal transition products.

Suitable for Sealing Threads in Metals, ABS, PVC, CPVC & Nylon Piping Systems

While specially designed for Spears® products, Spears® BLUE 75™ is suitable for use in metal and plastic systems properly designed for handling a wide variety of liquids and gases (not recommended for use in oxygen handling systems).



Quality Systems Certificate No. 293
Corporate Facilities, Sylmar, CA
Assessed to ISO 9001: 2008

Basic Specifications

Color	Light blue
Consistency	Grit-Free, crushable paste
Potable Water Approval	National Sanitation Foundation (NSF®)
U.S. Federal Specifications	Meets and Exceeds: TT-5-1732
Shelf Life	Indefinite when properly stored in closed container



BLUE 75™ Thread Sealant Chemical Incompatibility Information

BLU-CC-0113

Spears® BLUE 75™ Thread Sealant is a blue, non hardening, viscous thread paste that is chemically compatible for use with many different thermoplastic and metal materials. However, listed below are some chemicals with which the Blue 75™ is not compatible:

Incompatible Chemical List

1. Sulfuric Acid @ 30%
2. Sodium Hydroxide @ 25%
3. Sodium Hypochlorite @ 12%
4. Hydrochloric acid @ 50%
5. Hydrofluoric Acid @ 50%
6. Chlorine Dioxide
7. Deionized Water
8. Liquid Chlorine
9. Chlorine Gas
10. Ozone
11. Phosphoric Acid



It is the responsibility of the end user to verify compatibility of all system components with the intended service media.

If you have any questions, please do not hesitate to contact the Merriman Technical Service Department at sales@merrimancontrols.com or phone 02 4351 4022



SPEARS® MANUFACTURING COMPANY • CORPORATE OFFICE
15853 Olden St., Sylmar, CA 91342 • PO Box 9203, Sylmar, CA 91392
(818) 364-1611 • www.spearsmfg.com





Using Tape or Paste Sealants With Plastic Threads

TECH-2-No.111

TECHNOLOGY UPDATE

Which Threaded Joint Sealant to Use?

- Tape sealants are more susceptible to improper installation
- Paste sealants are more likely to contain incompatible chemicals
- Either type – Paste or Tape - must be properly used but NEVER use both!

Spears® Recommends a Compatible Paste

As long as the sealant is fully compatible with the plastic material, paste type sealants are far less prone to installation error. Misapplication, frequent with the use of tape sealants, cannot only produce leaks, but also frequently over-stress the plastic threaded joint. The critical element is chemical compatibility. Some “pipe dopes” and pastes contain chemicals that can produce stress cracking in plastics. Spears® **BLUE 75™** Thread Sealant has been specially formulated and tested for use with plastic piping components. Simply apply to male threads.



*The Best Choice
For Threaded Joints*

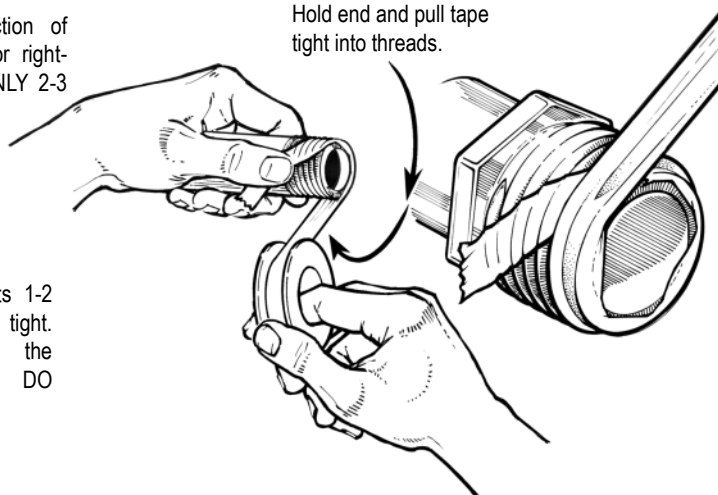
The Problem with Using TFE Tape Sealants

Thread sealants are applied only to the male threads. With a paste, you simply need to be sure the threads are fully covered, especially at the start. Any excess will be displaced between threads and spread evenly during joint assembly. In contrast, TFE tape-type sealant remains as a build-up on the thread especially when tape is not pulled tight into threads.. This creates a “wedging action” and stress to the joint during assembly. Tape is frequently over applied. Excess tape significantly increases male thread diameter, additionally stressing the joint. Tape wrapped in the wrong direction will bunch-up and create uneven sealing. Tape that is too thin will not provide sufficient sealing unless over applied. Tape is quite slick and can result in inadvertent over tightening. Using tape and paste makes this even worse! At the same time, **tape application that fails to fully cover the starting end can result in threads seizing prior to proper joint makeup and give a false sense of being tight.** Attempts to additionally tighten a joint in this situation can damage pipe or fittings.

If You *MUST* Use Tape Sealant, Use It Correctly!

Wrap Tape In Direction of Threads (clockwise for right-hand thread). Use ONLY 2-3 wraps of tape.

Hold end and pull tape tight into threads.



Use a TFE Tape Sealant with a minimum thickness of 2.5 mil.

Joint Assembly:

Tighten threaded joints 1-2 turns beyond finger tight. Avoid “backing up” the wrenched assembly. DO NOT over-tighten.

Always cover end of fitting at the start to prevent thread seizing prior to proper joint makeup.



Progressive Products From Spears® Innovation & Technology

SPEARS® MANUFACTURING COMPANY

Visit our Web site: www.merrimancontrols.com



Quality System Certificate No. 922
Certificate No. 130 9001: 2000
Assessed to ISO 9001: 2000
TECH-2-No.111

BLUE 75THREAD SEALANT

General Instructions

Store and apply between 20°F (-7°C) and 140°F (60°C): remains usable to -50°F (-45°C). Stir before using.

1. Threads should be properly formed or cut with a good die and free of all oils, dirt, moisture, etc.
2. Apply Spears® **BLUE 75™** freely to male threads with brush applicator. Brush well into threads to ensure a leak-free joint.
3. Assemble joint in usual manner. Take care not to over tighten. System may be placed into service immediately.

Caution: Do not take internally.
Do not burn - fumes may be harmful.
Wash hands and exposed areas after handling.

FIRST AID

Eyes: Flush 15 minutes with clean water.

Skin: Wash with soap and water.

Ingestion: Only if conscious, give large amounts of water and induce vomiting. Obtain medical attention.

User shall determine the suitability of the product for its intended use and all risk and liability in connection therein. Manufacturer is not responsible for consequential damages.



*PROUD TO PARTNER SPEARS
MERRIMAN CONTROLS
PHONE 02 435 14022*



www.merrimancontrols.com or sales@merrimancontrols.com