Slic-Tite Paste® with PTFE
How it Works & Application Instructions

How it Works

Slic-Tite Paste® is a non-setting pipe thread sealant that contains PTFE particles and other solid sealants. The highly versatile and effective sealing properties of Slic-Tite Paste are mainly due to the amount and size of the PTFE particles.

Sealing Properties of PTFE
PTFE is a highly compressible plastic which is inert to many chemicals and has natural lubricating properties. These properties make PTFE and excellent sealant for pipe threads. The PTFE particles in Slic-Tite Paste become locked in the threads as a pipe joint is tightened. The PTFE then compresses and flows to fill in any voids or defects in the threaded joint as it continues to be tightened. Other solid additives in Slic-Tite Paste help hold the PTFE particles in place while the joint is tightened and work with the PTFE to aid sealing.

Amount of PTFE
Slic-Tite Paste contains more PTFE than any other commercially available pipe thread sealant paste. Not only does Slic-Tite Paste contain more PTFE, it contains more of the right kind of PTFE. The PTFE particles in Slic-Tite Paste are designed to stay put in the threaded joint. The more PTFE that stays locked in the pipe threads, the better the joint will perform.

Size of PTFE Particles
Other so-called “smooth” pipe joint compounds claim to contain PTFE. However, these compounds contain PTFE dust in order to make them smooth. PTFE dust cannot lock and compress into threaded pipe joints like the larger PTFE particles in Slic-Tite Paste. PTFE dust is extruded out of a threaded joint along with the liquid compound ingredients as the joint is tightened. Therefore, PTFE dust in “smooth” compounds can only act as a lubricant, not a sealant. Slic-Tite Paste contains a carefully selected particle size distribution of PTFE to provide positive sealing. You can see this for yourself. Feel how a threaded joint “grabs” sooner as it is tightened with Slic-Tite Paste compared to smooth compounds. This is the PTFE particles beginning to compress and seal.
Application Instructions

In order to take full advantage of the sealing properties of Slic-Tite Paste, it must be applied properly.

- It is very important that the PTFE particles in Slic-Tite Paste are applied into the roots of only the male threads. The recommended way to do this is to brush Slic-Tite Paste into the threads in a perpendicular direction (against the threads, not parallel), being sure to push the PTFE particles into the roots of the threads.
- Slic-Tite Paste should be applied to a thickness of at least twice the depth of the thread root to insure an adequate amount gets into the joint.
- It is also important to apply Slic-Tite Paste into all male threads that will be engaged into the joint. Don’t rely on excess Slic-Tite Paste to be extruded out of the joint and onto the outer threads. Remember, the PTFE particles are locked into the pipe joint as it is tightened. Excess Slic-Tite Paste extruded out of the joint will be deficient in PTFE particles, and any PTFE particles that may get squeezed out will not be properly deposited into the roots of the outer threads.

It is the PTFE and other solid sealants in Slic-Tite Paste that work together to seal threaded pipe joints. Slic-Tite Paste’s special balance of these ingredients work synergistically to provide the highest performance pipe thread sealant available. Every batch of Slic-Tite Paste is performance tested before it is allowed out of our door to assure you of positive results every time.