Structural Adhesives
Surface Insensitive (SI) Cyanoacrylates
Tech-Bond Solutions offer four Surface Insensitive (SI), polymer-enhanced Structural Cyanoacrylates (SCA’s). All of our SI options, used with or without our performance enhancing tools, deliver consistently superior results. Each of our performance tools, whether the Activator/Accelerator, the Poly Prep and our unique Filler, intensifies the chemical reaction that occurs during the bonding process.

There are five different viscosities available for our SI, polymer-enhanced, Structural Cyanoacrylates. Viscosity is a measure of the thickness of a liquid or adhesive. Most of the over-the-counter adhesives are too thin for the casual user to have effective control. Finally, our SI structural adhesives offer the highest level of purity available which contributes to their superior performance.

Our viscosities:

- **SI Blue** (100 cP) is our standard viscosity. *SI Blue* spreads easily, wicks well and offers more control than ultra-thin adhesives. *SI Blue* is recommended for most tasks whether in the home, in the shop, in the garage, on a car, etc. Available in 3 gm tubes, 20 gm, 1 oz., 2 oz., 8 oz., and 16 oz. bottles and up to container size.

- **SI Black** (1500 cP) is thicker, offering more control. Besides being easier to control, *SI Black* may handle ambient moisture without creating a white residue. Use *SI Black* when gap filling (up to .0059 in.), or when working on an upright surface. Available in 1 oz., 2 oz., 8 oz., and 16 oz. bottles and up to container size.

- **SI Green** (0-5 cP) is our ultra-thin structural adhesive. Ultra-thin adhesives actually rate slightly higher in tensile and shear strength than higher viscosity formulations. For the technician or hobbist, ultra-thin viscosity CA’s can be difficult to use because of their runniness. Available in 1 oz., 2 oz., 8 oz., and 16 oz. bottles and up to container size.

- **SI Brown** (600 cP) is a medium viscosity Surface Insensitive (SI), Structural Cyanoacrylate (SCA). SI Brown is often favored by manufacturers because they offer a 600 viscosity adhesive offers good control without being too thick. Available in 1 oz., 2 oz., 8 oz., and 16 oz. bottles and up to container size.

- **SI GEL** is our thickest Structural Cyanoacrylate. Offers maximum gap filling and control. Available in 3 gm and 20 gm tubes, 300 ml caulking tubes and larger sizes.

Attributes of our Surface Insensitive (SI), polymer enhanced, Structural Cyanoacrylates (SCA’s).

- dry clear
- remain flexible when bonding flexible materials
- provide structural strength.
- In the 20 gm, 1 oz and 2 oz bottle sizes are guaranteed not to harden in the 1 and 2 for two years
- Repairs are completed quickly, easily and permanently.

Other Structural Adhesives

**BP Blue**
A structural cyanoacrylate designed to work with poly-plastics (polyethylene, polypropylene, polyurethane, etc. and our space age polymers like Teflon®, Delrin®, UHMW, silicone rubber, et al. **BP Blue** can be used by itself (one step) or, as with our SI Structural Cyanocrylates, the chemical reaction with BP Blue is enhanced with the proper usage of our standard Activator/Accelerator (AA). Attributes are the same as our SI Structural Adhesives. Available in 20 gm, 1 oz., 2 oz., 8 oz., and 16 oz. bottles and up to container size.

Other Adhesives

**Foam Safe Cyanoacrylates**
Cyanoacrylates (CA’s) will melt open cell foams. Some individuals are sensitive to the odor that can occur with CA’s. Some over-the-counter CA’a fog clear materials such as plexiglass or clear plastics. Our Foam Safe Bonding Agents work with open cell foams, have a greatly reduced odor and do not outgas, or fog, clear materials.

Our Foam Safe Cyanoacrylates include:
- Foam Safe Blue (FB) is a standard viscosity (100 cP), low odor, low bloom cyanoacrylate that will not affect Depron®, foam core, styrenes and other open cell foams.
- Foam Safe Red (FR) is a medium-thick viscosity CA that has the same performance characteristics that Foam Safe 100 has. Being thicker can make Foam Safe 1000 easier to use.

Available in 20 gm, 2 oz. and larger sizes.

The downside of a foam safe CA is that they are not as strong as a standard cyanoacrylate. Note: Foam Safe CA’s work MUCH easier when a Foam Safe Accelerator (AH) is used.

Threadlockers
Thread-locking fluids are thin, single-component adhesives which are applied to the threads of screws and bolts to prevent loosening, leakage, and corrosion. Typically, thread-locking fluids cure anaerobically and are methacrylate-based. Our Threadlockers include:

TL 42 is a low viscosity adhesive that offers medium torque removal resistance.
TL 71 is a low viscosity adhesive that offers a high level of torque removal resistance.
TL90 is a very low viscosity adhesive (wicking grade) that offers medium torque removal resistance.

Applications for threadlockers include: appliances, general industry, hobby, construction, repair, transportation, maintenance, heavy machinery, motorcycle, aerospace and agricultural equipment. Available in 10 ml, 50 ml and larger sizes.

Performance Tools
Activators/Accelerators

Standard Activator/Accelerator – Available in 1 oz, 2 oz, 8 oz, 16 oz and larger sizes.
Applied properly, our standard Activator/Accelerator intensifies the chemical reaction of the bonding process producing a stronger, more durable bond.

In addition, our standard Activator/Accelerators:
- speed the cure of our structural cyanoacrylates
- can be used as a cleaner

Foam Safe Activator/Accelerators (AH) - Available in 2 oz., 8 oz., 16 oz. and larger sizes.
- speeds the curing of Tech-Bond Bonding Agents
- is foam safe with a lower odor
- is safer for some fine finishes

Poly Prep - Available in 1 oz., 80 ml, 8 oz., 16 oz., 1 gallon and larger sizes.
- Surface primer for polymers. An adhesion promoter that allows our structural adhesives to work with virtually all materials, such as polyethylene, UHMW’s, silicone, Delrin(R), polypropylene, nylon, polyester, Teflon®, polyurethane, polyester, etc., to be bonded.
- Is clear, dries clear, does not damage most finishes (test first).

Filler - Available in 35 gm, 70 gm, 8 oz. and larger sizes.
A silica sand compound that, when used with our structural adhesives, will:
- allow holes and cracks to be filled.
- If a screw strips out, the Filler can be used to fill the hole so the material can be drilled and tapped.

Debonder - Available in 1 oz., 2 oz., 8 oz. and larger sizes.
- dissolves Structural Cyanoacrylates, cyanoacrylates, superglues, etc., on contact.
- Generally safer on finishes than Acetone, the other “undo” option.