

## USING JET™ GLUES

We recommend that this information be printed out and kept with your glue.

**INSTANT JET™, SUPER JET™, AND SLOW JET™** are all classified as cyanoacrylates, often simply called CA's. They are distinguished by bond strength and by quick set time and are used on a wide variety of materials. Because **these products can BOND SKIN INSTANTLY**, they are **NOT SUITABLE FOR USE BY CHILDREN** and **must be used with GREAT CARE** by adults.

### IMPORTANT HEALTH WARNINGS!

These products contain cyanoacrylate esters, which are identified as **EYE IRRITANTS**. **Protective eyewear is strongly recommended.** **IMMEDIATE BONDING OF EYE, SKIN OR MOUTH MAY OCCUR ON CONTACT.** If eye or mouth contact occurs, **HOLD EYELID OR MOUTH OPEN AND FLUSH WITH WATER ONLY. GET IMMEDIATE MEDICAL ATTENTION.** If skin bonds, don't vigorously pull apart. Use JET DE-SOLV™ (*other than around eyes, mouth, and other delicate spots*) to loosen a bond, or soak in warm, soapy water and gently and slowly separate.

Some people may experience an allergic reaction when exposed to fumes from CA glue or epoxy. As with paints, thinners, and solvents, it is always important to **use glues only where there is adequate ventilation** to carry fumes away. A fan is recommended.

**KEEP AWAY FROM CHILDREN!**

### BASIC INSTRUCTIONS – READ COMPLETELY AND CAREFULLY

- **Protect the work surface.** CA glue is difficult to remove and solvents are damaging to many materials. Work over an old board or protect work area with thick cardboard and/or many layers of newspaper. Work in the center of the area to avoid glue running off the protected space.
- **Work in a well-ventilated area.** A fan is recommended.
- CA glue must be handled with great care. Protective eye-wear is highly recommended. **Never point the nozzle at your face or work with your face close to the application site. NEVER SQUEEZE THE BOTTLE WITH FORCE.** If the glue does not come out readily, the nozzle may be plugged with hardened glue. Often, it can be cleared by inserting a pin or by cutting off part of the tip. (Beware, as more glue then will come out more quickly.) If that does not work, you may need to get a replacement cap.

- **Apply glue sparingly.** Too much glue will cause the CA to run beyond the desired joint area, stick to your fingers, and create a messy, difficult situation. A drop or two of CA is often all that is needed. If an area is to be saturated, be especially diligent about protecting surrounding areas.
- Use **JET DE-SOLV™**, a CA solvent, to remove hardened glue from fingers, to soften glued joints for repositioning, and to clean up work area.
- **Do not carry opened bottles of CA in a work tote or equipment bag.** If the cap is jostled off, the CA will likely ruin anything with which it comes in contact. Since CA eats through some plastics, putting an open bottle in a secondary container may not prevent it from leaking into unwanted areas and causing expensive damage.
- **Store in a cool place.**

## GLUING TECHNIQUES

Always remember to use the glue sparingly (to avoid run-off) and to keep your fingers out of the way. Nothing can be more frustrating than gluing your fingers to the project and having to extricate yourself before continuing.

Watery thin **INSTANT JET™** is excellent for reinforcing nearly all porous materials, because it “wicks” down into the substrate. It is also useful for providing a corrosive resistant finish and for “tack” gluing. Many wood workers find it perfect for securing delicate inlays or strengthening weakened wood. When repairing a dented surface, it is often possible to sand and fill the area, then apply **INSTANT JET™** and re-sand to create a smooth surface.

**INSTANT JET™** generally is **NOT** ideal for gluing plywood and hardwood parts.

**SUPER JET™** is strongly recommended for most building and bonding tasks because, when pressed into a very thin layer, it sets almost instantly. However, because of **SUPER JET's™** quick set-up time, you will have only a few moments for positioning of parts. Be sure to trial fit parts together before gluing.

**SUPER JET™** is used in two general ways. One is to apply **SUPER JET™** to one part and then press the two parts to be glued together. Or, you can position parts in contact and then run **SUPER JET™** into the joint. As it seeps into the joint, it will leave a slight reinforcing fillet. If you don't see a slight fillet, it is possible the CA has soaked into the substrate and a second coat may be needed. Corner fillets take even longer to dry because there is not a thin layer.

After the initial bond, **SUPER JET™** continues to strengthen. The time necessary for an initial set varies with the substrates being glued, with the thickness of the glue layer, and with the humidity in the work area. For example, **SUPER JET™** sets up a bit slower with plywood and hardwood, so it is necessary to hold such parts together a little longer than you

would for balsa. Because of the tendency of all CA glues to set slower on harder, more impervious surfaces, or when in a thick layer, it is frequently helpful to use **JET SET™**, an accelerator for all brands of CA glue. **JET SET™** allows you to bridge greater gaps, speeds up slow bonds, and provides strong glue joint fillets.

Although **SUPER JET™** is ideal for most jobs, there are times maximum gap-filling and extra strength requirements make **SLOW JET™** a better choice. This thickest viscosity (thickness) is also a good choice when you want more set-up time for careful alignment and positioning. In such cases, once the positioning is achieved, the bonding may be hastened by the use of **JET SET™**.

Before undertaking any important project, it is wise to test the various viscosities to determine which will work best for your purpose.

**JET GLUE** bottles are generally clog resistant. However, to encourage the glue to run back down into the bottle at the end of your work session, it is sometimes helpful to **VERY GENTLY** squeeze the upright bottle before replacing the cap. **WARNING: Do not bend your face over the bottle and do not apply more than the slightest pressure.** Also, be sure there is no wet glue on the outside of the nozzle before you replace the cap.

When working in a tight space, or to more carefully control the amount of glue that comes out of the bottle, use **JET TIPS™**. These inexpensive, tapered tips fit on all bottle sizes and discharge only one drop at a time.

**JET GLUE** is known for its excellent “shelf life.” Unopened bottles are guaranteed for one year from the date we sell it and it frequently lasts even longer. To help your glue stay fresh longer, whether opened or unopened, it is best to keep it in the refrigerator or freezer. (Thawing is not necessary). Always keep it capped and avoid storing it in hot places. **ALWAYS PLACE AND STORE AWAY FROM ACCESS BY CHILDREN.**

## EPOXIES

For some jobs, you may wish to use **JET EPOXY™** for added strength and flexibility.

Epoxy glues come in two parts that need to be mixed before using. When buying epoxy, check to see how long you will be able to work before the glue begins to set up, as well as how long the glue takes to have a full set. We recommend either **JET 6 MINUTE EPOXY™** or **JET 20 MINUTE EPOXY™**.

Disposable wood strips, cotton swabs, cheap stiff bristle brushes or acid brushes from auto stores make good applicators.

Because epoxy is so thick, it is easy to apply too much. Use sparingly.