Which Gues to Choose

Definition

WHAT ADHESIVE WORKS BEST FOR YOUR APPLICATION

Types of Adhesives

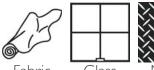
Glue/Adhesive [gloo]/[ad-hee-siv, -ziv] noun:

I. A material used to stick two substrates or parts together.

2. A substance capable of holding materials together by surface attachment.

SYMBOL KEY

Substrates (what's getting glued)









Characteristics (features of the adhesive)



Water-like Consistency

Thermal &

Electrical

Properties Available





Outdoors Varied Temps Strength Consistency

Strong Bond

Can be Strength Exposed to Exposed to



Chemicals Water

Acrylic:

A structural adhesive capable of bonding a broad range of substrates with good flexibility.





Cyanoacrylate:

One-part adhesive that cures instantly on contact with matted surfaces. Excellent adhesion to a variety of substrates.

CHARACTERISTICS



Hot Melt:

A thermal plastic material melted and applied in a molten state, wetting the surface. As it cools, it solidifies forming a bond.

CHARACTERISTICS



Silicone:

One component adhesive that cures to a tough, rubbery solid upon exposure to moisture in the air.

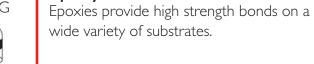
CHARACTERISTICS



WORKS BEST BONDING



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Polyurethane:

Anaerobic:

Epoxy:

Superior bonds with minimal surface prep for high performance thermoplastics. Cures via a catalyst, heat or air evaporation.

One-part adhesive that cures only in the

nuts, bolts and/or retaining bearings.

CHARACTERISTICS

absence of air. Designed for locking screws,

CHARACTERISTICS



Solvent-based:

One-part solvent evaporation system with a rubber or plastic base. Good product for laminating or covering a large surface.

CHARACTERISTICS



WORKS BEST BONDING





JOINT

















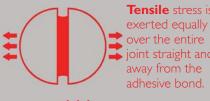




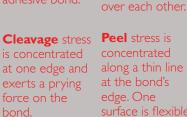




that it holds something together resisting the







is across the

adhesive bond.

forced to slide

The bonded







Water-based:

One-part evaporation system. Water-based adhesives can be used in a wide variety of non-structural bonding applications.

CHARACTERISTICS



WORKS BEST BONDING



5 STEPS TO ENSURE OPTIMUM PERFORMANCE

- Joint Design proper design can maximize adhesive performance. II. Surface Preparation - amount of preparation should be consistent with your requirements.
- III. Application Methods manual, pneumatic, automated, metering and mixing.
- IV. Heat Curing Equipment many methods available.
- Pressure Equipment must provide uniform pressure over the entire bonded area.

DID YOU KNOW?

The term "off to the glue factory" refers to before the 20th century when deceased horses were made into glue by boiling down their hooves and hides. Many other animals were used to make glue including fish and rabbits. Synthetic glues have replaced the use of animal glues, except in extremely rare cases.







