Permabond®
Engineering Adhesives

AGRICULTURAL & CONSTRUCTION MACHINERY



Permabond offers a wide range of different adhesive technologies for bonding agricultural and construction machinery.

Adhesives for agricultural equipment are used throughout the cabin, engine compartment and on most accessories and attachments. The applications range from threadlocking to structural bonding and provide equipment, and machinery designers increased opportunities to improve durability while reducing weight.

FEATURES & BENEFITS

Key reasons to select adhesive bonding over mechanical fasteners include:

- Increased strength
- Weight reduction
- Reduced costs
- Increased stress distribution
- Improved manufacturing process
- Increased vibration resistance
- Corrosion prevention
- Design with a wider choice of substrate materials



IDEAL FOR BONDING:

- Acrylic
- Aluminum
- Composites
- Nylon
- PBT
- PC
- PVC
- Rubber
- Stainless Steel

...& many more

TYPICAL APPLICATIONS

Threadlocking – Threadlocking anaerobic adhesives and sealants lock screws, nuts, bolts, and studs against loosening. They lubricate to ease assembly, prevent corrosion, seal as well as lock, provide controlled off torque with varying strengths to meet removable and permanent requirements. Threadlockers are also more cost-effective than mechanical locking devices.

Thread Sealing – Thread sealing anaerobic adhesive sealants cure to a durable seal that will not shred, creep or relax over time. Grades are available for water, gas, air, and hydraulic systems.

Retaining – Anaerobic retaining compounds augment slip fits, prevent corrosion, provide 100% unitizing contact to reduce machine tolerances and allow for 5 times greater load carrying capacity.

Form in Place Gasketing – Anaerobic adhesive form in place gaskets replace traditional cork, wood, rubber, paper, and silicone gaskets. They do not become brittle or shrink over time; they are easy to dismantle with normal tools, they seal even rough surfaces without shimming.

Structural Bonding – Structural bonding of brackets, housings, and other structural components is readily achieved with epoxy or structural acrylic adhesive. Strong, durable bonds distribute stress throughout the bond area avoiding fatigue at fastener sites.

Rubber Bonding – Cyanoacrylate adhesives provide a fast, effective solution to bonding rubber door bumpers and step treads.

Panel Bonding – Low shrinkage modified epoxies and MS polymers bond exterior panels with low read through.

Seam Bonding – Open seams are quickly sealed with 2 component epoxy adhesive.

Weld Sealing – Weld seam sealing is fast and easy with low viscosity anaerobic adhesive sealant HL126.

Bonding Noise Reduction Materials in Cabin – Several types of adhesives including cyanoacrylates, acrylics, and MMAs are commonly used to bond noise reduction foams within the interior of the cabin.

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