

# Speaker Adhesives

## Using Adhesives to Bond Speakers



From the small speakers in a toy to mid sized electronics speakers to the largest stage speakers, Permabond works with you to ensure that the best adhesive is selected for optimum performance.

Applications that appear the same on the surface, such as speakers and microphones, often have vastly different requirement in their underlying design and construction.

Permabond cyanoacrylates are used to instantly bond the small magnets in headsets.

The durable strength of Permabond ET510 is the preferred choice for consumer electronics like cell phones.

Fire alarm speakers need the 'cure on demand' aspect of UV light curables and for the harsh demands of bonding the magnets in loudspeakers, Permabond TA459 is the trusted choice.

Permabond has a complete line of adhesives to offer a total solution to complex assembly needs.

See example applications and product choices on the reverse.

### *Application: Bonding pole piece to magnet assembly*

Permabond TA459, a two component, structural acrylic adhesive rapidly bonds the magnets to the pole piece forming a high strength durable bond.



#### **Benefits of Permabond structural acrylics:**

- Very High Impact & Shear Strength
- Excellent Durability
- Fast Fixture Speed
- No Mix Step Required
- Ambient Cure
- Good Shelf Life - (No refrigeration or freezing needed)
- Non-corrosive

*Adhesive used: Permabond TA459 with Initiator 43*

### *Application: Bonding Magnets in headset*



#### **Benefits of Permabond Cyanoacrylates:**

- Very Efficient Process
- Excellent Durability
- Fast Fixture Speed
- Single component - no mixing needed
- Ambient Cure
- Good Shelf Life

*Adhesive used: Permabond 910*

### *Application: Speaker bonding in teleconference phone*

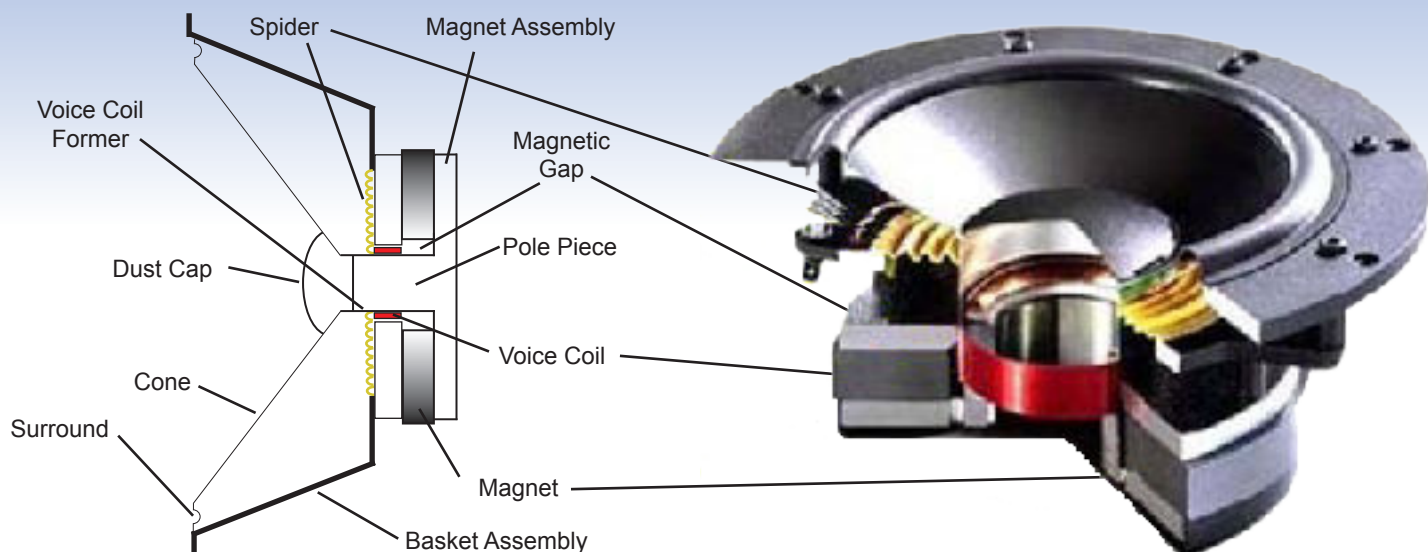
#### **Benefits of Permabond epoxy adhesives:**

- Easy to apply
- Excellent Durability
- Dual cartridge - mixes as it dispenses
- Ambient Cure
- Good Shelf Life - (No refrigeration or freezing needed)



*Adhesive used: Permabond ET510*

**Permabond**<sup>®</sup>  
Engineering Adhesives



Typical Product	Application Description	Features
2011	Basket Assembly to Surround	Thixotropic gel; High strength bonding for this vertical application.
737 / 735	Surround to Cone	Flexible, black, & toughened. Use Permabond 737 for larger gap filling.
737 / 735	Cone to Spider	
2011 / 737	Dust Cap to Cone	Permabond 737 is flexible & toughened. Permabond 2011 is non sag for vertical applications.
TA459 & TA437	Pole Piece to Magnet Assembly	Fast, high strength, high temperature resistant bonds.
ET510, 737 & 735	Voice Coil to Cone	Flexible, toughened bonds. Product selection based on substrate.
UV645 & UV649	Cable/wire to Cone	Clear, cure-on-demand bonding. Use Permabond UV649 for larger gaps and vertical applications.

## Contact Permabond

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### Permabond Worldwide

Wherever your manufacturing or R&D site may be located, Permabond representatives can be called upon to assist you. We have an extensive network of trained distributors worldwide.

The information given and the recommendations made herein are based on our experience and are believed to be accurate. No guarantee as to, or responsibility for, their accuracy can be given or accepted, however, and no statement herein is to be treated as a representation or warranty. In every case we urge and recommend that purchasers, before using any product, make their own tests to determine, to their own satisfaction, its suitability for their particular purposes under their own operating conditions.

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Permabond's sales engineers are available to assess your production line and find the best possible turnkey adhesive solution that will result in production efficiencies.

The experienced team of Permabond chemists is on hand to help you with custom formulations and fulfilling your technical data requests.



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