

Mighty Bond

Anti-Clog Tech

Product Description

Pioneer Mighty Bond Anti-Clog Tech is an advanced cyanoacrylate adhesive that bonds almost everything in just seconds. It is an extremely fast-drying adhesive and does not need mixing, clamping, or heating. All you need is a drop for every square inch, applied on one side of the two surfaces to be bonded.

Mighty Bond Anti-Clog Tech utilizes a patented dispenser to deliver Mighty Bond Instant Glue via a precision applicator and a flow-back mechanism. This dispenser provides accurate application and the flow-back action of the tube reduces nozzle clogging, helping to extend the storage life of your Mighty Bond product.

Key Features

- Quick setting and Fast curing
- Easy to use and apply
- No mixing needed
- No clamping necessary
- With Patented dispenser-helps in precise application
- Maximized product storage life
- Flow back action reduces nozzle clogging

Product Specifications/ Typical Properties/ Physical Characteristics

Table 1: Physical properties: UNCURED STATE*

Parameters	Results
Base	Ethyl Cyanoacrylate
Appearance	Clear, Colorless to pale yellow liquid
Specific Gravity @25°C	1.10
Flash Point	80 - 93.4°C
Viscosity @ 25°C	80 - 120 cps

Table 2: Curing Performance*

Parameters	Results
Setting Time/Cure Speed	
Stainless steel	<5 seconds
Aluminum	<10 seconds
PVC	<5 seconds



Table 3: Typical Properties of Cured Material*

Parameters	Results
Physical Properties	
Color	Clear
Softening Point	165°C
Electrical Properties	
Volume Resistivity ($\Omega \cdot \text{cm}$)	1×10^{16}
Surface Resistivity (Ω)	1×10^{16}
Dielectric Constant @ 10 kHz	2.75
Dielectric Dissipation Factor @ 10 kHz	<0.02
Dielectric Breakdown Strength (kV/mm)	25

Table 4: Adhesive Performance*

Tensile Shear Strength @25°C after 24 hrs, psi	
Steel	2702 - 2987
Stainless Steel	3556 - 6400
Aluminum	2418 - 2702
Copper	2134 - 2418
PVC	569 - 853
ABS	711 - 996
Polycarbonate	1138 - 1707
Polystyrene	427 - 640

*Typical Values and characteristics only.

Applications

Mighty Bond provides an immediate, and exceptionally strong bond on almost all materials, including:

- Metal
- Rubber
- Leather
- Wood
- Porcelain
- Some Plastics (except Polypropylene and Polyethylene)

Application Procedure

Surface Preparation

Make sure the surfaces to be bonded are clean and dry (preferable to solvent-wipe plastics, glass, and rubber, and to acid-treat metals).

Method

1. Pierce the tube by screwing the nozzle down tightly and turning it clockwise.
2. Remove the cap to use.
3. Squeeze the tube and dispense a drop or drops as required, to one of the surfaces to be bonded. Apply just enough to leave a thin film after compression.
4. Join the surfaces and apply pressure for a few seconds. Good contact is essential. An adequate bond develops in less than 1 minute.
5. Remove excess adhesive from the assembly.
6. After use, wipe excess adhesive from the nozzle, and recap.

Sometimes whitening may occur on the surface of the bonded assembly. This is due to condensation by polymerization. Should this happen, wipe the surfaces with Pioneer Mighty Remover.

Cleaning

Tools used during the application may be cleaned using **Pioneer Mighty Remover**. For soiled hands, wipe with a cloth dampened with Mighty Remover, then wash with soap and water.

Handy Tips

- For best results, ensure that substrates to be joined are close-fitting.
- For fast cure results, use 1 drop per square inch. Do not use in large amounts as this will cure slower.
- Full bond strength is achieved after 24 hours.
- When fingers get stuck together, apply drops of Mighty Remover at the affected areas. Then, slowly, twist fingers together in the opposite direction.

Packaging (available sizes)

3g tube

(1 Master box = 12 Inner boxes = 144 pcs)

Storage

- Unopened tubes: Cool, dry place away from direct sunlight and preferably 20-25°C maximum. Keep the container tightly closed until ready for use. For long-term storage, refrigeration is recommended. DO NOT FREEZE. Temperatures less than 2°C can adversely affect product properties.
- Opened tubes: Store tube in an upright position in a cool, dry place and away from direct sunlight. Wiping the nozzle before capping and/or refrigeration helps prolong shelf-life.

Shelf Life

- 18 months from manufacturing date

Health and Safety Precautions



WARNING

Cyanoacrylate.
Bonds skin and eyes in seconds.
Causes skin and serious eye irritation.
May cause respiratory irritation.

PRECAUTION

Avoid breathing fumes.
Wear protective gloves/clothing/eye or face protection.

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Pioneer Adhesives, Inc.

ISO 9001:2015 and ISO 14001:2015 Certified

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Pioneer
Do it right.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention as needed.

If on skin: Remove using Pioneer Mighty Remover. Do not try to remove forcibly.

DISPOSAL

Dispose of contents in accordance to local regulations.

KEEP OUT OF REACH OF CHILDREN.

Warranty and Disclaimers

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