

MIGHTY BOND XTREME

IMPACT HEAT & WATER RESISTANT

Product Description

MIGHTY BOND XTREME is the NEW GENERATION cyanoacrylate. Its advanced formula is designed to give superior bonding strength on metal that can resist IMPACT, HEAT and WATER.

Key Features

- One component, easy to use
- Strong, Flexible Bond
- IMPACT RESISTANCE- It has greater impact resistance vs. regular super glues.
- HEAT RESISTANCE- It is heat resistant up to 120°C permanently, 150°C intermittently.
- WATER RESISTANCE- It is more water resistant than any other regular super glue.



Product Specifications / Typical Properties / Physical Characteristics

Table 1.

Physical Properties (Uncured State)*

Parameters	Results
1. Base	Ethyl Cyanoacrylate
2. Appearance	Clear, Colorless to pale yellow liquid
3. Specific Gravity @20°C	1.06
4. Flash Point	80°C
5. Viscosity @ 25°C	2,500 cps
6. Boiling Point	> 190°C

Applications

- Can be used on a variety of surfaces:
 - Metal
 - Rubber
 - Leather
 - Wood
 - China
 - Porcelain
 - Some plastics (except Polypropylene and Polyethylene)
- For repairs requiring immediate results
- For DIY projects
- Limitations:
 - Not for gap-filling purposes (materials need to be close-fitting to bond properly)
 - Not recommended for items with direct contact to hot liquids

Table 2.

Physical Properties (Cured State)*

Parameters	Results
Setting Time, seconds	26-30 seconds
Adhesive Strength, psi (based on ASTM D4541)	1800 psi minimum
Adhesive Strength -after 2 hours exposure to 150°C, psi (based on ASTM D1002)	313 psi
Adhesive Strength - after 24 hours submerging under water, psi	1583 psi
- after 5 days submerging underwater, psi (based on ASTM 896 and ASTM D1002)	1549 psi
Impact Resistance	Does not break after a metal load of 0.45kg is dropped from a height of 60 cm

*Typical Values and characteristics only.

Application Procedure

A. Surface Preparation

Make sure that the surfaces to be bonded are free from dust, oil, water or lubricant.

B. Method

1. Screw nozzle on tube.
2. To pierce tube, screw nozzle down tightly and turn clockwise
3. Remove cap.
4. Apply a small amount of glue to one surface.
5. Join surfaces and apply pressure for a few seconds. Note: Good contact is essential.

C. Cleaning

Tools and equipments used during application may be cleaned using Mighty Remover. For soiled hands, wipe with 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 = 24 pcs per box

1g tube = 24 pcs per box

Storage

- Unopened tubes: Cool, dry place away from direct sunlight and preferably 30°C maximum
- 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

3g tube: 24 months from manufacturing

1g tube: 15 months from manufacturing

Health and Safety Precautions

DANGER

Hazards

Combustible liquid.
Causes skin, eye or respiratory irritation.
May cause an allergic skin reaction.

Precaution

Keep away from heat/sparks/open flame/hot surfaces.
No smoking during use.
Avoid breathing mist or vapors.
Wash the hand or face by soap and water after handling.
Use only in a well-ventilated area.
Wear protective polyethylene gloves/protective clothing/eye or face protection.

If on skin: Wash with plenty of soap and water.

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

If skin or eye irritation occurs: Get medical advice/attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Take off contaminated clothing and wash it before re-use.

In case of fire: Use carbon dioxide/dry chemical to extinguish.

KEEP OUT OF REACH OF CHILDREN.

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