

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	1800 psi minimum
(based on ASTM D4541)	
Adhesive Strength	313 psi
-after 2 hours exposure	
to 150°C, psi	
(based on ASTM D1002)	
Adhesive Strength	
- after 24 hours submerging	1583 psi
under water, psi	
- after 5 days submerging	1549 psi
underwater, psi	
(based on ASTM 896 and	
ASTM D1002)	
Impact Resistance	Does not break after a metal
	load of 0.45kg is dropped
	from a height of 60 cm
*Timble of Malura and above stanish	inn ank

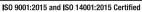
^{*}Typical Values and characteristics only.

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

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
- 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 preferrably 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.

Warranty and Disclaimers

Unless an additional warranty is specifically stated on the applicable product packaging or product literature, Pioneer warrants that each Pioneer product conforms with the applicable Pioneer product specification at the time of shipment, and when properly used and maintained in accordance with Pioneer's current published Technical Data Sheet (TDS), will serve the purpose for which it is intended. The recommendations and statements in Pioneer's TDS are based on good building practice but are not, by any means, an exhaustive statement of all relevant information. Pioneer shall not be liable for the recommendations in its TDS and the performance of the relevant Product. Pioneer shall also not be liable for any claims, damages or defects arising from, or in any way attributable to poor workmanship, incorrect design or detailing, use of the Pioneer product in unsuitable conditions, and force maieure.

Pioneer MAKES NO OTHER WARRANTIES, CONDITIONS OR REPRESENTATIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOMER OR USAGE OF TRADE. If the Pioneer product does not conform to this warranty, then the sole and exclusive remedy is, at Pioneer's option, the replacement of the Pioneer product or refund of the purchase price.

Limited Liability

Except where prohibited by law, Pioneer will not be liable for any loss or damage arising from the use or application of the Pioneer product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

TDS Pioneer - 022019 Version



