

SUPERUNIX® Xtreme Power

Product description

SUPERUNIX® Xtreme Power is a universal instant cyanoacrylate adhesive of maximum performance and sets in 10 seconds. It is strong, fast and safe. Its new generation gel formula does not irritate or smell.

The properties of SUPERUNIX® Xtreme Power have been carefully selected through extensive research and experimentation to meet the needs of the most demanding users. Our technical experience and market knowledge have led to the development of an adhesive that not only takes advantage of universal and instant adhesives, but also overcomes the disadvantages of both.

SUPERUNIX® Xtreme Power is an instant all-purpose adhesive with excellent adhesive properties on a wide range of materials and surfaces, even under water. Compared to traditional universal adhesives, this product offers exceptional open working times and greater strength and speed. Properties such as open time of approximately 2 hours, instant adhesion to wood, metals (including aluminium), plastics and even irregular surfaces make this product perfect as a mounting adhesive for small applications and for DIY jobs. Its gel consistency also allows vertical applications.

It is an instant adhesive based on new generation cyanoacrylates. It allows for repositioning during the first 10 seconds. Its ultra gel formula is flexible and highly resistant to temperature, impact, vibrations, and humidity. It is very versatile and perfectly combines all kinds of materials.

Special features

- It's fast. It allows to bond pieces in 10 seconds.
- It's extreme. Maximum strength of 2800 PSI.
- Resists shocks and vibrations.
- Not irritating.
- Odourless.
- Glues all materials, even very porous. Except polyethylene (PE), polypropylene (PP) and Teflon® (PTFE).
- Resists water; exterior exposure and dishwasher cycles.
- Allows for small underwater applications (fish tanks, aquariums ...).
- It has a high viscosity gel with filling capacity.
- Its consistency allows it to be used in vertical applications.
- Low blooming and reduced frosting
- Repositionable.
- Does not bond fingers instantly.

Typical properties of uncured material

- Specific gravity @ 77 °F (25 °C) (ISO 1183): 1.20
- Viscosity @ 77 °F (25 °C) (ASTM D2256-14): 17,000-25,000 mPa·s (cP)

Typical Curing Performance

Under normal conditions, the atmospheric moisture initiates the curing process on the adhesive layer that is formed when the two surfaces to be joined are put in contact and pressed. Although full functional strength develops rapidly, full chemical resistance is achieved after 24 hours.

- Fixture times

It is defined as the time necessary to develop a shear strength of 0.1 N/mm² (1 kg/cm²). The following table shows the fixture time in several materials at 77 °F (25 °C) and 50% relative humidity.

Material	Fixture times (seconds)
Beech wood	5
Pinewood	15
Oak wood	15
PVC (Simona CAW)	5
ABS	20
Polycarbonate (Makroform 099)	40
Aluminium 5754	10
Aluminium 6060 E6 / Ev1	10
Sand Blasted steel	15
Stainless steel (316Ti)	10
Brass (MS63)	35

Typical performance of cured material

- Shear strength

The shear strength (ISO 4587) in different substrates for samples cured 24 hours @ 77 °F (25 °C) and 50% relative humidity is shown in the following table.

Material	Shear Strength (PSI)
Beech wood	1700 – 2000*
Pinewood	1400 – 1700*
Oak wood	1300 – 1600*
PVC (Simona CAW)	700 – 1000*
ABS	1300 – 1600*
Polycarbonate (Makroform 099)	700 – 1000
Aluminium 5754	850 – 1100
Aluminium 6060 E6 / Ev1	2700 – 2900
Shot peened steel	2300 – 2600
Stainless steel (316Ti)	1100 – 1400

* Substrate failure

- Dishwasher resistance

Dishwasher resistance was determined by preparing lap shear bonds as described in ISO 4587, with a bond area of 0.48 in² (312.5 mm²), cured 24 hours @ 77 °F (25 °C) and

SUPERUNIX® Xtreme Power

50% relative humidity. The bonds were then subjected to dishwasher cycles. Dishwasher resistance is shown in the following table:

Material	Dishwasher cycles
PVC (Simona CAW)	> 40
Polycarbonate (Makroform 099)	> 40
Aluminium 5754	> 40
Aluminium 6060 E6 / Ev1	> 50
Stainless steel (316Ti)	> 40

Joints of dissimilar materials where there could be differential thermal expansion and contraction at elevated temperatures and some substrate materials could absorb water or corrode could damage the bond and affect the dishwasher resistance.

Use instructions

- Before applying the adhesive, ensure that the areas to be joined are clean, dry and free of all loose material, dust, dirt, rust, oil and other contaminants.
- Screw the cap and the nozzle onto the tube. Unscrew the cap to open the product.
- Apply a small amount of material on one of the two surfaces. An irregular surface may require more material to fill all the irregularities.
- Put the two pieces in contact and press for a few seconds until the pieces are fixed (see the table of times to obtain precise values). After releasing the pressure, wait a few minutes to obtain good strength for handling. The total strength is reached at approximately 24 hours.
- Immediately after use, clean the tip of the nozzle with a tissue and close the lid. Store the tube or bottle upright in a cool, dry environment.
- The product used to clean the surfaces will depend on the nature of the surfaces. In some cases, a cotton cloth, clean and free of lint, moistened with solvent can be used. Dry immediately with another cloth before the solvent evaporates from the surface. In other cases, consult the cleaning method with the manufacturer of the substrate materials.

Tips for a PERFECT FINISH:

- Do not apply product in excess and remove the excess as much as possible with an absorbent paper or spatula.
- For glass and crystal applications, make a preliminary test to ensure compatibility and desired finish are possible.

The information in this Product Data Sheet (PDS) is of a general nature based on our knowledge and experience with this product and should be used for information and consideration purposes only. The product can have a variety of different applications, as well as differing application and working conditions in your environment that are beyond our control. Therefore, this data does not constitute a warranty, expressed or implied, statutory or otherwise, nor is it representation for which Pacer Technology assumes legal responsibility. Pacer Technology strongly recommends that users of the product independently determine the suitability of the product for their use. Pacer Technology specifically disclaims any liability for consequential or incidental damages of any kind, including profit. Any use of this product must be determined by the user to be in accordance with applicable federal, state, provincial, and local laws and regulations.

Dissolution and cleaning

Use specific solvents for instant adhesives or acetone.

Format

SUPERUNIX® Xtreme Power is supplied in tubes of 3 g (0.10 oz) (Ref. 90011) and 10 g (0.35 oz) (Ref. 90015).

Storage

Store the product in a cool and dry place in its original closed packaging at temperatures between 41 °F (5 °C) and 77 °F (25 °C). In the original 3g tube packaging (Ref. 90011) the shelf life of the product is 12 months and in tubes of 10 g (Ref. 90015) the life of the product is 12 months from shipment date.

Storage after the recommended date does not necessarily mean that the product is no longer viable. In this case, however, the properties required for the intended use must be verified for quality control reasons.

The date of manufacture can be determined from the batch code on the package. For assistance, contact the Technical Department or Customer Service.

Safety recommendations

Keep the product away from children.

Contains 2-methoxyethyl 2-cyanoacrylate. Skin contact through clothing may cause burns. For accidental eye contact, flush with water for 15 minutes; get medical attention for eye or internal contact. To remove from skin, water exposure will wear off residual adhesive within a few days. More detailed instructions are included in the corresponding product safety data sheet.

This product is not recommended for use with pure oxygen and / or oxygen-rich systems and should not be chosen as a sealant for chlorine or other strong oxidants. For safety information on the handling of this product, consult the Safety Data Sheet (MSDS).

In case of emergency, call CHEMTREC at (800) 424-9300 or call Pacer Technology at (800) 538-3091 (outside CA only), or (909) 987-0550.