



## Tough Technology Products

Eaton Place Business Centre, 114 Washway Road, Sale  
Cheshire, M33 7RF, England  
Tel: 0800 772 0996



# SUREFIX

## TTP SUREFIX SFX0001

**Surefix Super Glue - Super Fast Adhesive**  
**Clear cyanoacrylate super glue adhesive**

### Product Description

SUREFIX is a medium viscosity modified Ethyl Cyanoacrylate adhesive. SUREFIX is suitable for bonding a very wide range of materials, including some porous ones, where a fast cure speed is required.

### Typical Applications

SUREFIX is specially formulated for the bonding of plastics, rubbers, wood, paper, leather, metals and other common substrates. SUREFIX relies less on surface moisture for cure speed than standard cyanoacrylates. Recommended for use on close-fitting parts and fairly smooth, even

### Technical Information

|                                  |                         |
|----------------------------------|-------------------------|
| Chemical type                    | Ethyl                   |
| Appearance                       | Clear                   |
| Specific Gravity                 | 1.06                    |
| Viscosity cPs                    |                         |
| – range                          | 80-120                  |
| – typical value                  | 100                     |
| Tensile Strength                 | (N/mm <sup>2</sup> ) 21 |
| Fixture Time                     | (secs) 3-20             |
| Full Cure                        | (hours) 24              |
| Flash Point                      | (°C) > 85               |
| Shelf Life @ 5°C                 | (months) 12             |
| Max Gap Fill                     | (mm) 0.15               |
| Operating Temperature Range (°C) | -50 to +80              |

ISO 3104/3105  
ISO 6922

#### Typical Curing Performance

Typical Speed:

Steel/steel <20 seconds  
ABS/ABS <10 seconds  
Rubber/Rubber <5 seconds  
Wood (balsa) <3 seconds



**Tough Technology Products**  
Eaton Place Business Centre, 114 Washway Road, Sale  
Cheshire, M33 7RF, England  
Tel: 0800 772 0996

**TTP**  
Leading Edge Technology



# SUREFIX

## TTP SUREFIX SFX0001

**Surefix Super Glue - Super Fast Adhesive**  
**Clear cyanoacrylate super glue adhesive**

### Cure Speed & Substrate

The speed of cure of cyanoacrylates varies according to the substrates to be bonded. Acidic surfaces such as paper and leather will have longer cure times than most plastics and rubbers. Some plastics with very low surface energies, such as polyethylene, polypropylene and Teflon® require the use of a primer.

### Cure Speed & Bond Gap

SUREFIX cyanoacrylates give best results on close fitting parts. The product should be applied in a very thin line in order to ensure rapid polymerisation and a strong bond. Excessive bond gaps will result in slower cure speeds. Activators may be used to greatly increase cure speeds

### Cure Speed & Environmental Conditions

Cyanoacrylate adhesives require surface moisture in the substrates in order to initiate the curing mechanism. The speed of cure is reduced in low humidity conditions. Low temperatures will also reduce cure speed. All figures relating to cure speed are tested at 21°C .

### Typical Environmental Resistance

#### Hot Strength

SUREFIX cyanoacrylate adhesives are suitable for use at temperatures up to 80°C. At 80°C the bond will be approximately 70% of the strength at 21°C. The bond strength at 100°C is approximately 50% of full strength at 21°C.

#### Heat Ageing

SUREFIX cyanoacrylates retain over 90% of their strength when heated to 80°C for 90 days and then tested at 21°C. Heating the bond to 100°C and then Testing at 21°C gives bond strength of approximately 50% of initial strength.

### Chemical / Solvent Resistance

SUREFIX cyanoacrylates exhibit excellent chemical resistance to most oils and solvents including motor oil, leaded petrol, ethanol, propano and freon. Cyanoacrylates are not resistant to high Levels of moisture or humidity over time.

**Leading Edge Technology**  
[www.ttproducts.com](http://www.ttproducts.com)



**Tough Technology Products**  
Eaton Place Business Centre, 114 Washway Road, Sale  
Cheshire, M33 7RF, England  
Tel: 0800 772 0996



# SUREFIX

**TTP SUREFIX SFX0001**

**Surefix Super Glue - Super Fast Adhesive  
Clear cyanoacrylate super glue adhesive**

## General Information

For safe handling of this product consult the Material Safety Data Sheet.

## Removal Of Cure Cyanoacrylate

Cured cyanoacrylate may be removed from most substrates, and parts disassembled, It is not possible to fully remove cyanoacrylate from fabrics.

## Direction Of Use

SUREFIX is very fast so ensure that parts are properly aligned before bonding.  
An activator may be required if there are gaps or porous surfaces. Some plastics may require application of a Primer.  
Ensure parts are clean, dry and free from oil and grease. Product is normally hand applied from the bottle. Apply sparingly to one surface and press parts firmly together until handling strength is achieved.  
As a general rule, as little cyanoacrylate as possible should be used – over application will result in slow cure speed and lower bond strength.

## Presentation

Bottles: ... . . . . . 20grm

## Storage

Store in a cool area out of direct sunlight. Refrigeration to 5° C gives optimum storage stability.

## Data Ranges

The data contained in this data sheet may be reported as typical value and/or range. Values are based on actual test data and are verified on a regular basis.

## Disclaimer

IMPORTANT: The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, †Tough Technology Products Limited† expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

Before handling this material, read and understand the MSDS (Material Safety Data Sheet) for additional information on personal protective equipment and for safety, health and environmental information.

