

# Technical data sheet



Product: PEN

Manufacturer: H.B. FULLER

Product group: KLEBSTOFF

Article group: PRIMER, ACTIVATOR, VERNETZER

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## CYBERBOND CONDITIONER PEN

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Tewipack Uhl GmbH  
Industriestraße 15  
D-75382 Althengstett

Telephone:  
+49(0)7051/9297-0  
Fax:  
+49(0)7051/9297-99

E-Mail:  
info@tewipack.de  
Website:  
www.tewipack.de

Managing director:  
Alexander Uhl,  
Michael Uhl  
HRB 330424  
Amtsgericht  
Stuttgart

Bank details:  
Sparkasse  
Sindelfingen  
Pforzheim  
Calw  
BLZ 666 500  
85  
Konto 17 787

Commerzbank  
Sindelfingen  
BLZ 603 400 71  
Konto 8 001 166

Vereinigte  
Volksbank AG  
Böblingen  
BLZ 603 900 00  
Konto 80 089  
003

Postbank  
Stuttgart  
BLZ 600 100  
70  
Konto 146  
294 708



Primer und activator for cyanoacrylates

The Conditioner Pen is a primer/activator combination for cyanoacrylates in the form of a felt-tip pen. It is used before the bonding process only by applying it on to the part to be bonded.

The Conditioner Pen cleans and conditions the surface to be bonded with cyanoacrylates, thus optimizing resp. making the bonding process possible.

Application fields:

- suboptimal environmental conditions (dry air, cold),
- high adhesive film thicknesses,
- bonding of inactive materials, e.g. Polyethylene (PE), Polypropylene (PP), Polyoxymethylene (POM), silicone as well as modern thermoplastic elastomers (TPE).

Product features:

- Primer/activator combination,
- Felt-tip pen with cleansing effect,
- Line width from 1 to 6 mm,
- The pen is instantly ready for use,
- The product evaporates very quickly,
- The pen is not refillable.

Shelf life: 1 year

### General Information CA

Cyanoacrylates are fast setting, one component and solvent free adhesives. They are based on esters of cyanoacetic acid. To get to a finished product, mainly thickeners, respectively film forming agents (polymer methacrylics and acrylics) and stabilisers are added. The polymerization is initiated by present humidity. Best results are given between 40 to 70 % relative humidity.

Cyberbond standard grades are as follows:

- Powerdrop series (stabilised ethyl ester)
- Elastomer and plastic series (ethyl ester)
- Neomer Series (surface insensitive ethyl ester)
- xtraflex series (rubber toughened ethyl ester)
- metal series (ethyl ester)
- low odour series (alkoxy ester)
- medical series (butyl- and octyl ester)

### Measurement of Viscosities

Viscosity describes the flow-ability of a liquid. Cyberbond measures the viscosity of the products by means of the cone/plate method: the liquid is applied on a panel and a defined cone presses the liquid together and rotates.

You differentiate between a Newtonian and a thixotropic liquid. In terms of a Newtonian liquid you will get a relative constant viscosity graph in dependence of the rotary speed of the cone. In terms of thixotropic liquids the product becomes more liquid (down to its base viscosity) the faster the cone rotates.

The viscosity is measured in mPa\*s (milli Pascal x second) [SI system] or in cP (centipoise) [CGS- system]; 1 mPa\*s = 1 cP.

In order to allow products comparison all adhesives are measured at the same rotation speeds.

- Newtonian liquids at 160 upm
- Thixotropic liquids at 0,5 upm and at 160 upm

Temperature always is at 20 °C / 68 °F, if not mentioned to be different.

### Clean Surface

The surface condition of the mating parts has an enormous influence on the success of a bond. To achieve good bonding success the mating parts should be clean.

### Additional Programme

In order to support certain applications Cyberbond offers perfectly balanced additional products such as:

- Primer and Conditioner Pen: in order to change surface tension; enables to bond unpolare materials (Standard: CB 9056)
- D-Bonder: in order to dissolve adhesives (Standard: CB 9060, CB 9065, CB 9066)
- Activator: in order to accelerate the curing of adhesives (Standard: CB 9090, CB 9096, Quickstep 9040, Quickstep 9080)
- Cleaner: in order to clean surfaces professionally (Standard: CB 9999)

### LINOP Equipment

Cyberbond offers by means of the LINOP Equipment range suitable dosing and LED based curing devices. We also refer to suitable dosing tips which help an economical use of the adhesives (also if used manually).

### Potential Danger of Cyanoacrylates

You should care for the following:

- use in well ventilated areas only
- install suitable exhaust systems in the workshop
- apply material economically and use a dosing system where appropriate
- allow a consistent relative humidity of 50 to 65 %; with regards to lower figures the polymerization will be delayed and monomer adhesive fume will appear
- if necessary: wear suitable, non-sucking gloves (e.g. no cotton)
- keep adhesive out of reach of children

The data mentioned in this TDS, particularly the recommendations and use of products are based on our recent knowledge and experience. Due to the fact of having so many different materials involved and conditions of applications which are out of our influence, we strongly recommend to do sufficient tests in order to guarantee that Cyberbond products are suitable for the intended process and applications. Except for wilful acts any liability based on such recommendations or any verbal advice is hereby expressly excluded.

### For safe handling consult Material Safety Data Sheet (MSDS).

Cyberbond Europe GmbH  
A H.B. Fuller Company  
Werner-von-Siemens-Straße 2  
31515 Wunstorf  
Germany  
Tel.: +49 / 50 31 / 95 66 - 0  
[www.cyberbond.de](http://www.cyberbond.de)



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