

Description

Surface in sensitive low viscosity instant adhesive based on ethyl-cyanoacrylate. Very fast cure, even under low humidity conditions, on difficult to bond substrates, on porous and acidic surfaces as leather, wood, paper, carton, foamed rubber, EPDM.

Physical Properties

Composition : modified ethyl cyanoacrylate
 Colour : clear/colourless
 Viscosity (at +25°C - mPa s) : 5 - 10
 Specific weight (g/ml) : 1,10
 Gap to fill : 10 - 40 microns
 Flash Point : see MSDS
 Shelf Life : 1 year in original unopened packaging
 Temperature resistance : -50°C /+80°C

Curing properties

Curing rate depends on the substrate used, on the gap, on the temperature and on the environmental humidity.

Fixture times (typical)

Material fixture time (s)

Wood :

*Fir 30 - 60
 *Balsa 2 - 5
 *Teak 5 - 20
 *Baywood 10 - 30
 *Pine 5 - 20
 *Oak 30 - 60
 *Chipboard 30 - 60

Plastics

*PVC 2 - 10
 *Phenolic Resin 2 - 10
 *ABS 2 - 10

Metals

*Steel 5 - 20
 *Aluminium 2 - 10
 *Zinc 10 - 20

Various

*Neoprene/NBR <2
 *Fabric 2 - 20
 *Leather 5 - 10
 *Paper 5 - 10

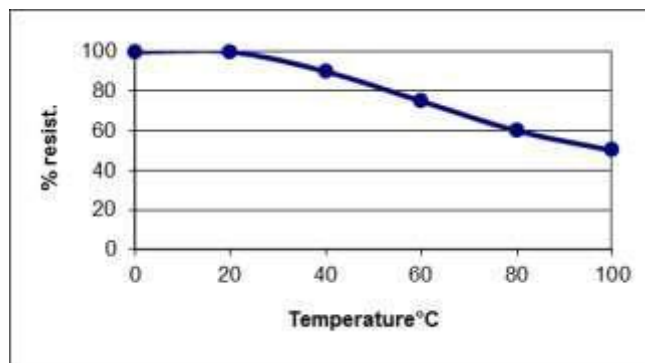
In case of too long setting time, we recommend the use of Loxeal Activator 9. In case of usage with PE, PP, Silicone rubbers or PTFE, Loxeal Primer 7 is always recommended.

Properties of cured material (typical)

Tensile strength ISO 6922 (N/mm²) : 18 - 25
 Shear Strength ISO 4587 N/mm²) : 13 - 18
 Softening range : + 160°C/+170°C
 Refractive Index n²⁰_D : similar to glass
 Electrical resistivity DIN 53482 (Ω mm) : >10¹⁵
 Dielectric strength ASTM D 149 (kV/mm) : 25
 Dielectric Constant DIN 53483 (1MHz) : 5,2

Environmental resistance

The graph below shows the mechanical strength of the product (%) v temperature increasing. Steel specimen - ISO 4587



Chemical resistance

Aged at indicated temperature under conditions below after 24 hours from polymerization.

substance	°C	Resistance after 100 h	Resistance after 500 h	Resistance after 1000 h
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Motor oil	40	excellent	excellent	excellent
Alcohol	25	excellent	excellent	excellent
Gasoline	25	excellent	excellent	excellent
Relative Humidity 90%	40	discrete	low	low
Refrigerating gases	25	excellent	excellent	excellent

*For information on resistance with other chemicals, contact Loxeal Technical Service.

Directions for use

Clean and degrease parts to bond with Loxeal Cleaner 10. Excess of product either cured or not can be removed with Loxeal CA Remover.

Storage

We recommend to store product in a cool and dry place at temperature non exceeding +20°C. For better and enhanced shelf life, keep product in a refrigerator at +2°C/+7°C. To avoid contaminations do not refill containers with used product. For more information on applications, storage and handling contact Loxeal Technical Service

Safety and handling

Consult the Safety Data Sheet before use.

Note

The data contained herein, obtained in Loxeal laboratories, are given for information only; if specifics are required, please contact Loxeal Technical Department. Loxeal ensures abiding quality of supplied products according to its own specifics. Loxeal cannot assume responsibility for the results obtained by others which methods are not under Loxeal control. It is user's responsibility to determine suitability for user's purpose of any product mentioned herein. Loxeal disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Loxeal products. Loxeal specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.

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