

LOXEAL INSTANT ADHESIVE 32

Description

Super fast instant adhesive on basis of ethyl cyanoacrylate.
Low viscosity, designed for fast bonding of EPDM, foam rubber, difficult to bond rubber, soft/plastic.

Physical properties

Composition: ethyl cianoacrylate
Colour: clear
Viscosity (25°C –mPa.s): 5 - 10
Specific weight (g/ml): 1,05
Gap to fill: 10 – 40 microns
Flash point: 87°C
Shelf life: 12 months at 20 °C
Temperature range: -50°C + 80°C

Curing properties

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

Substrate Fixturing Time (seconds)

Plastics
* PVC: 2- 10
* Phenolic Resin: 5 - 15
* ABS: 2 - 10

Metals
* Steel: 10 - 20
* Aluminium: 2 - 10
* Zinc: 30 - 90

Various substrates

*Neoprene/NBR : < 2
* Rubber : 2 - 5
* EPDM : < 5

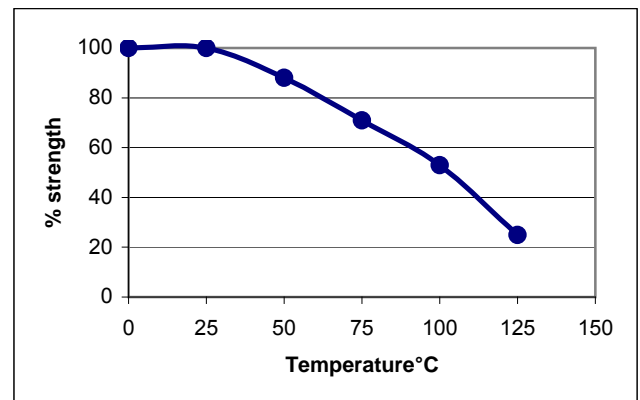
In case setting time is unacceptably long, we recommend the use of Loxeal Activator 9. IN case of usage with PE ,PP, Silicone rubbers or PTFE Loxeal Primer 7 is always recommended.

Proprieties of cured material

Tensile strength ASTM D 2095 (N//mm²): 18 - 25
Shear strength ISO 4587 (N//mm²): 13 - 18
Impact strength ASTM D 950 (N.mm/ mm²): 13 - 18
Softening range: 160°C – 170°C
Refraction index n²⁰D: 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 (%) vs. temperature.
Specimen steel – ISO 4587



Chemical resistance

After 24 hours of polymerisation at indicated temperature.

Substance	°C	Resistance after 100 h	Resistance after 500 h	Resistance after 1000 h
Motor oil	40	Excellent	Excellent	Excellent
Alcohol	25	Excellent	Excellent	Excellent
Gasoline	25	Excellent	Excellent	Excellent
Relative humidity 90%	40	Discrete	Discrete	Low
Refrigerating gases	25	Excellent	Excellent	Excellent

Motor oil	40	Excellent	Excellent	Excellent
Alcohol	25	Excellent	Excellent	Excellent
Gasoline	25	Excellent	Excellent	Excellent
Relative humidity 90%	40	Discrete	Discrete	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 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 +3 /+8°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.

Note

The data contained herein, obtained in Loxeal laboratories, are given for information only. Loxeal cannot assume responsibility for the results obtained by others which methods are not under Loxeal control. It is the user's responsibility to determine suitability for the 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.