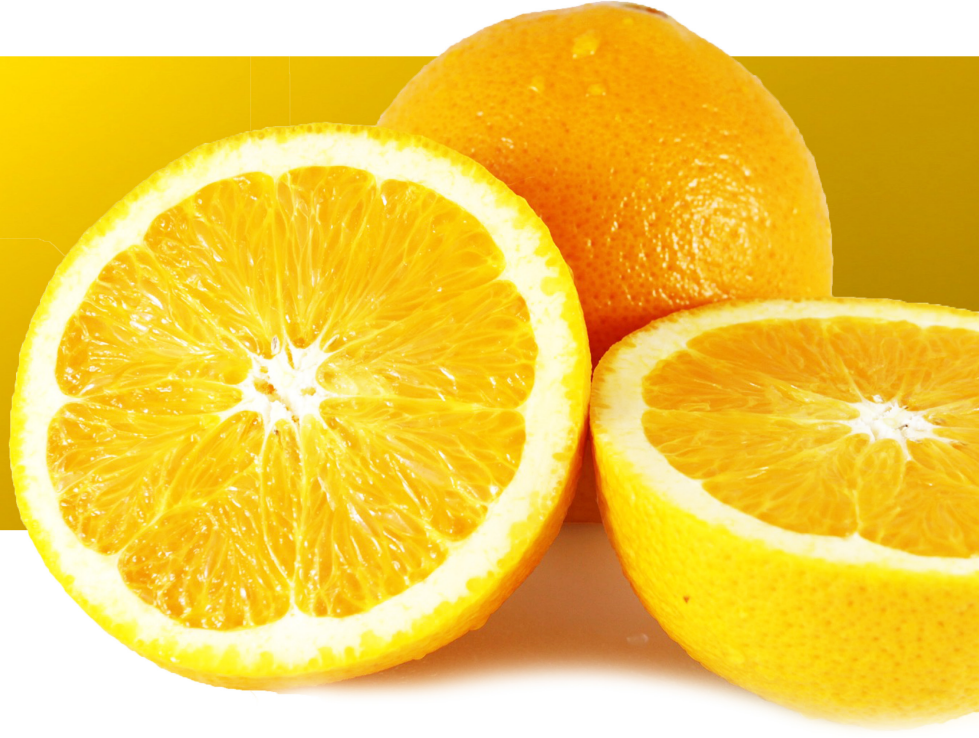
SOVE

43S ADESIVO INSTANTÂNEO

LOXEAL ENGINEERING ADHESIVES

Certificado para a Indústria Alimentar



sove.pt

LOXEAL®
ENGINEERING ADHESIVES
UNI EN ISO 9001 - UNI EN ISO 14001
Registered Quality and Environment Management System Company

Technical Data Sheet

LOXEAL INSTANT ADHESIVE 43S

Description

General purpose, surface insensitive medium viscosity instant adhesive based on ethyl cyanoacrylate.
Insensitive to acidic surfaces, it is recommended for bonding of leather, wood and metals.
Proven temperature strength up to +120°C with peaks for short times up to +150°C.
NSF registered as acceptable for use as an instant adhesive (**category P1**) in and around food processing area. Registration No.154017.

Physical properties

Composition:	modified ethyl cyanoacrylate
Colour:	clear
Viscosity (+25°C - mPa s):	80 - 150
Specific weight (g/ml):	1,06
Gap to fill:	10 - 150 microns
Flash point:	see MSDS
Shelf life:	12 months in original unopened packaging
Temperature range:	-50°C/+120°C

Curing properties

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

Substrate	Fixture Time (seconds)
Woods	
* Fir	45 - 90
* Balsa	2 - 5
* Teak	5 - 20
* Baywood	10 - 30
* Pine	5 - 20
* Oak	90 - 180
Chipboard	30 - 90
Plastics	
* PVC	2 - 10
* Phenolic Resin	2 - 10
* ABS	2 - 10
Metals	
* Steel	5 - 20
* Aluminium	2 - 10
* Zinc	10 - 20
Various substrates	
* Neoprene/NBR	< 5
* Fabric	2 - 20
* Leather	5 - 15
* Ceramic	5 - 30
* Paper	1 - 5

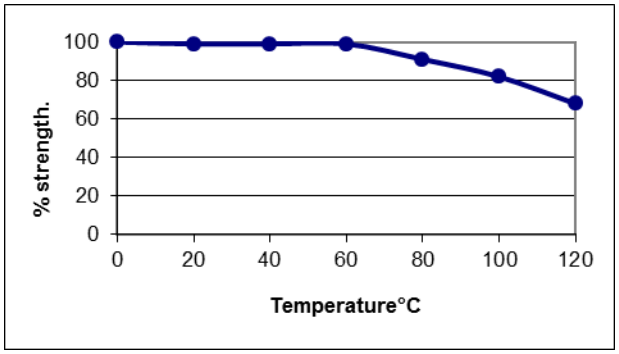
In case of too long setting time we recommend tom use Loxeal Activator 9. IN case of usage with PE, PP, Silicone rubbers or PTFE Loxeal Primer 7 is always recommended.

Proprieties of cured material (typical)

Tensile strength ISO 6922 (N//mm^2):	15 - 25
Shear strength ISO 4587 (N//mm^2):	15 - 20
Softening range:	+160°C/+170°C
Refraction index n ^{20}D:	similar to glass
Electrical resistivity DIN 53482 (Ω mm):	>10^{15}
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	low	low
Refrigerating gases	25	excellent	excellent	excellent

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

LOXEAL Srl - Via Marconato 2 - 20811 - CESANO MADERNO (MB) - Italy - Tel +39 (0)362 5293.1 - Fax +39 (0)362 524225 - www.loxeal.com

Directions for use

1. Clean and degrease all surfaces with Loxeal Cleaner 10 and allow drying before applying the adhesive.
2. For bonding low surface energy plastics such as PE, PP, PTFE, apply Loxeal Primer 7 on bonding surfaces and allow drying.
3. To reduce curing time of some hard to bond rubbers and plastics, using Activator 9 is recommended. After its application on one surface, let it dry. Any surplus adhesive outside the joint can be instantaneously fixed with Activator 9 after assembling.
4. Use the proper bottle to apply the adhesive, avoiding the usage of improper tools. Bring the components together quickly and correctly aligned (fast curing does not allow any repositioning).
5. Apply sufficient pressure for a few seconds to fix the components and clamp them until they are completely fixed.
6. Wait 24-72 hours until full cure before any mechanical stress.

Warnings

This adhesive is not approved for usage neither with pure nor with gaseous oxygen.

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.

LOXEAL Srl - Via Marconato 2 - 20811 - CESANO MADERNO (MB) - Italy - Tel +39 (0)362 5293.1 - Fax +39 (0)362 524225 - www.loxeal.com

NSF International / Nonfood Compounds Registration Program

November 23, 2021

Loxeal SRL
Via Marconato 2
20031 Cesano Maderno
Italy

RE: Loxeal Instant Adhesive 43S
Category Code: S4
NSF Registration No. 154017

NSF has processed the application for Registration of **Loxeal Instant Adhesive 43S** to the *NSF International Registration Guidelines for Proprietary Substances and Nonfood Compounds* (2021), which are available upon request by contacting NonFood@nsf.org . The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements including FDA 21 CFR for appropriate use, ingredient and labeling review.

This product is acceptable for use as an adhesive (S4) in and around food processing areas. The product must only be used in such a manner as to ensure it will have neither direct nor indirect contact with food or potable water. Before using this compound, food products and packaging materials must be removed from the area or carefully protected. This compound must be used in a manner so that all odors associated with the compound are dissipated before food products or packaging materials are re-exposed in the area. Use must also be consistent with the manufacturer"s directions and warnings.

NSF Registration of this product is current when the NSF Registration Mark and Category Code appear on the NSF-approved product label, and the Registered product name is included in the current NSF White Book Listing of Nonfood Compounds at the NSF website (www.nsfwhitebook.org).

NSF Listing of all Registered Nonfood compounds by NSF International is not an endorsement of those compounds, or of any performance or efficacy claims made by the manufacturer.

Registration status may be verified at any time via the NSF website, at www.nsfwhitebook.org . Please note the letter date reflects most recent product review. NSF utilizes annual verification to ensure no changes have been made to a registered product. Changes in formulation or label, without the prior written consent of NSF, will void Registration, and will supersede the on-line listing. Please contact your NSF Account Manager or nonfood@nsf.org if you have any questions or concerns pertaining to this letter.

Sincerely,

Orsolya Dezsi
NSF NonFood Compound Registration Program
Company No: C0005599