

## LOXEAL INSTANT ADHESIVE 52

### Description

Loxeal Istant 52 is a fast setting modified ethyl cyanoacrylate adhesive, with improved temperature resistance and low viscosity. Specifically suitable for bonding rubbers, plastics and metals where prolonged heat exposure is required. Temperature resistant up to +180°C.

### Physical properties

Composition:	modified ethyl cyanoacrylate
Colour:	clear/colourless
Viscosity (+25°C - mPa s):	50 - 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:	-55°C +180°C

### Curing properties

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

<u>Substrate</u>	<u>Fixture Time (seconds)</u>
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#### Plastics

* PVC:	3 - 10
* Phenolic Resin:	5 - 20
* ABS:	10 - 30

#### Metals

* Steel:	10 - 30
* Aluminium:	20 - 40
* Zinc:	30 - 90

#### Various substrates

* Neoprene/NBR:	3 - 8
* Nitrile Rubber:	3 - 8

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

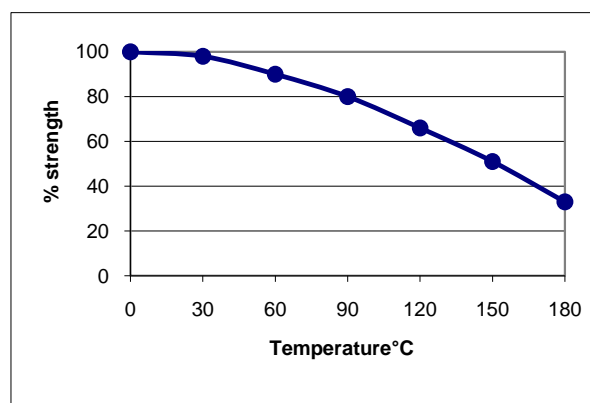
### Proprieties of cured material (typical performances)

Tensile strength ISO 6922 (N/mm <sup>2</sup> ):	18 - 25
Shear strength ISO 4587 (N/mm <sup>2</sup> ):	15 - 25
Coefficient of thermal expansion:	90 x 10 <sup>-6</sup> mm/mm °C

### Environmental resistance

The graph below shows the mechanical strength of the product (%) vs. temperature.

Specimen steel - ISO 4587



### Directions for use

- Clean and degrease all surfaces with Loxeal Cleaner 10 and allow drying before applying the adhesive.
- For bonding low surface energy plastics such as PE, PP, PTFE, apply Loxeal Primer 7 on bonding surfaces and allow drying.
- 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.
- 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).
- Apply sufficient pressure for a few seconds to fix the components and clamp them until they are completely fixed.
- 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 Material 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.