

Preliminary LOXEAL INSTANT 81

Description

Low viscosity, fast curing and highly flexible instant adhesive based on ethyl cyanoacrylate.
Designed to bond rubbers, plastics, metals and dissimilar surfaces.
The very high elongation of 100-150% allows an excellent shock and impact resistance.
Low viscosity for a capillary penetration into preassembled parts.
Easy to use both manually or through dosing system.
Highly resistant to temperature and thermal shock.

Physical properties

Composition:	ethyl cyanoacrylate
Color:	transparent
Viscosity (+25°C - mPa s):	2 - 5
Specific weight (g/ml):	1,1
Gap to fill:	10 - 50 microns
Flash point:	see MSDS
Shelf life:	6 months in unopened packaging
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.

<u>Substrate</u>	<u>Fixture Time (seconds)</u>
EPDM:	10 - 20
NBR:	3 - 8
ABS:	2 - 5
Zinc coated steel:	< 10

In case fixture time is very slow because of low temperatures or moisture, using Loxeal Activator 9 is recommended.
If bonding PE, PP, Silicone rubbers or PTFE always prime first with Loxeal Primer 7.

Proprieties of cured material (typical)

Shear strength ISO 4587 (N/mm ²) (Steel/steel +25°C)	5 - 8
Hardness Shore A:	60
Tensile strength DIN 53504 (N/mm ²):	1 - 3
Elongation at break (DIN 53504):	100 - 150%

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

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