

Cyanolit®
Fast bonding with
cianoacrylate adhesives

Properties

- Solvent free
- 1-component adhesives
- Fast curing instant adhesives
- Universal applications

Advantages

- No shrinkage
- High impact strength and thermal stability
- Bonding of porous materials, rubber, metal, and critical plastics
- No outgassing

Cyanolit® Cyanoacrylate adhesives – Superglue for Superfast Bonding

The Cyanolit® superglue series from Panacol includes a wide range of high performance cyanoacrylate adhesives. Cyanolit® offers reliable bonding solutions for challenging applications.

Fast and consistent bonding processes can be created with Cyanolit® adhesives.

The solution for instant bonds

Cyanolit® cyanoacrylates are highly effective adhesives, which cure without heat, pressure, or other activators.

Typically, the classic one-component cyanoacrylate adhesives cure within seconds when exposed to atmospheric humidity or the moisture absorbed on the surfaces of the materials being bonded.

Key Benefits

- Some products allow assembly without outgassing/ blooming
- Application specific bonding of porous materials and rubber
- Application specific bonding of PP and other critical plastics
- Large range of viscosities available



Formulation

Cyanolit® adhesives are solvent-free, reactive adhesives which are formulated from esters derived from cyanoacrylic acid.

Typically three types of esters are used in cyanoacrylate adhesives based on their performance properties:

- Ethyl ester, which provides universal adhesion characteristics
- Butyl and alkyl esters which offer unique, but less reactive properties

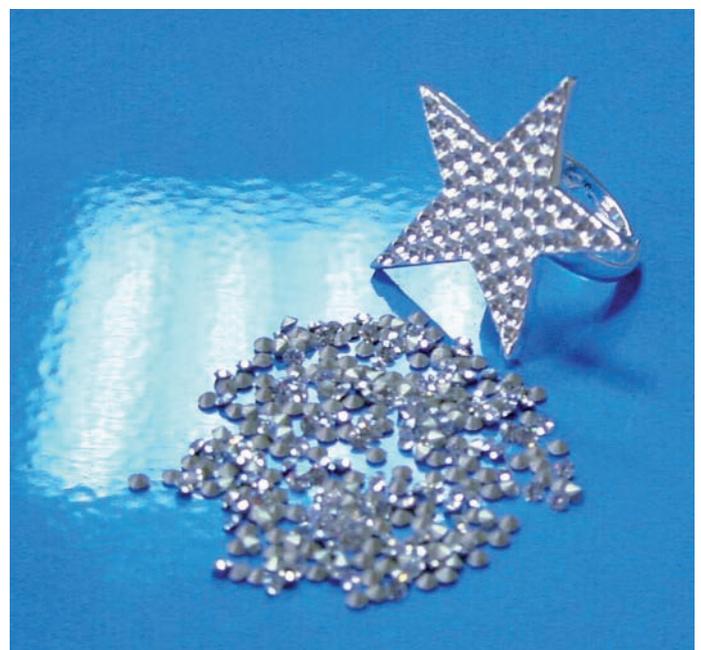
Cured Cyanolit® adhesives are thermoplastic resins. They are best suited for constant temperature exposure in the range of -30 °C to +80 °C.

For higher temperature exposures we recommend using the Cyanolit® 400 and 500 series.

Cyanolit®	200	201	202	203 TX	221 F	241	241 F
Viscosity (mPas)	2	2	100	5,000	20	40	40
Setting time (sec)	3 – 12	2 – 20	13 – 40	30 – 75	1 – 10	5 – 30	3 – 15
Shear strength (MPa)	5 *	6 *	5 *	6 *	8 *	5 *	9 *
Temperature resistance (°C)	-80 to +100	-80 to +80	-80 to +80	-80 to +80	-80 to +100	-80 to +80	-80 to +80
Max. gap width (mm)	0.05	0.05	0.2	3	0.05	0.15	0.15
Recommended substrates	EPDM, PA, PVC	PVC, PA, ABS, aluminium, rubber	PVC, PA, ABS, aluminium, rubber	PVC, PA, ABS, aluminium, rubber, wood	Viton®, POM, EPDM	Plastic, metal, rubber, sponge rubber	Plastic, metal
Special properties	Very good for hard to bond plastics, elastomers	Capillary flow, very high adhesion	Small gaps, delayed curing	Gap filling, slow curing, USP Class VI certified	Very good for hard to bond plastics	Very fast curing, universal applic., med. viscosity, excellent adhesion to plastics	Very fast curing, USP Class VI certified
Packaging size (g)	20, 500	20, 500	20, 500	20, 500	20, 500	20, 500	20, 500

Cyanolit®	401 X	402 X	403 TB	504	732 F	811 F	Gel 10
Viscosity (mPas)	2	100	1,000	100	300	10	10,000
Setting time (sec)	10 – 90	15	30 – 80	13 – 40	5 – 60	5 – 25	30 – 90
Shear strength (MPa)	10	10	10	5 *	9 *	9 *	5 – 7
Temperature resistance (°C)	-30 to +120	-30 to +120	-80 to +110	-80 to +100	-80 to +80	-80 to +80	-80 to +80
Max. gap width (mm)	0.05	0.12	0.2	0.2	0.2	0.1	3
Recommended substrates	Steel, aluminium, MS, PVC	Steel, aluminium, MS, PVC, stainless steel	Steel, Cu, aluminium	PVC, PA, ABS, steel, rubber	PVC, ABS, PC, wood, balsa, flake boards	PVC, PC, ABS, NBR, steel, EPDM	PVC, PA, ABS, EPDM, rubber
Special properties	Bonds metal, very high temperature resistance	Bonds metal, very high temperature resistance	Black, flexible, highly viscous	Industrial applications, large packaging sizes	Film former, bonds wood, USP Class VI certified	No outgassing	Gap-filling, highly viscous, long setting time
Packaging size (g)	20, 500	20, 500	20, 500	500	20, 500	20, 500	20

Cyanolit®	5004	5250	5811
Viscosity (mPas)	35	2200	10
Setting time (sec)	15 – 20	10 – 20	10 – 40
Shear strength (MPa)	5 – 7 *	10	5 – 7 *
Temperature resistance (°C)	-80 to +80	-80 to +80	-80 to +80
Max. gap width (mm)	0,1	0,2	0,1
Recommended substrates	Plastic, metal	Plastic, metal	Plastic, metal
Special properties	General applications, low viscosity	General applications, high viscosity	Clear bonds with no blooming or crazing
Packaging size (g)	500	500	500



* material breakage

Panacol is a leading international manufacturer of industrial adhesives as well as medical grade adhesives.

We provide an extensive product range that includes UV adhesives, structural and conductive adhesives for a large variety of applications.



Our portfolio of adhesive brands:

Elecolit®

Electrically and thermally conductive adhesives, available as one- or two-component resins. Depending on the filler material they are suited for automated dispensing equipment or for jet or screen printing applications.

Penloc®

Structural adhesives for bonding dissimilar substrates such as metal, glass, ceramics, hard wood and many plastics (not including PE or PP), or for joining metals which are exposed to high thermal stress.

Vitralit®

UV- or visible light curing adhesive systems, which can be cured with LED or gas discharge lamps within seconds.

Structalit®

Structalit®-adhesives are single- or two-component epoxy resin-based products with superior strength. They feature very high thermal stability and chemical resistance.

As a member of Hoenle Group and as a partner of UV equipment manufacturer Hoenle, innovative UV- and UV-LED curing systems are also available from Panacol.

Please contact us for further information or visit us at www.panacol.com.

hönle group		Engineered Adhesives	UV Adhesives	Conductive Adhesives	Potting	Curing
aladin	eleco-efd	eltosch grafix	hönle	panacol	printconcept	raesch
				uv-technik speziallampen		


 Panacol-Elosol GmbH, Daimlerstr. 8, 61449 Steinbach/Taunus, Germany
 Phone: +49 6171 6202-0, Fax: +49 6171 6202-590, email: info@panacol.de, www.panacol.com
 Operating parameters depend on production characteristics and may differ from the foregoing information. We reserve the right to modify technical data. © Copyright Panacol-Elosol GmbH. Updated 1/2016.