

EUROBOND Cyanolit 241 F

Product Description

Cyanolit series, offers an optimal product range in the field of cyanoacrylates. Cyanolit adhesives are solvent-free reaction adhesives formulated on the basis of esters of cyanoacrylic acid. They show very good adhesion to many materials and especially to plastics.

Cyanolit241 F is a low viscosity, one component adhesive based on cyanoacrylate with a good bonding on a wide range of materials including plastics, metals and elastomers. Cyanolit 241 F cures rapidly with atmospheric moisture. Low viscosity makes it ideal for applications where wicking of the adhesive into pre-assembled parts is required. Cyanolit 241 F has met the requirements for USP Class VI and is suitable for use in the assembly of disposable medical devices.

Curing Properties

Curing takes place without heat supply, pressure or additional activators. The classical one-component cyanoacrylates react with moisture, which is absorbed as a moisture film on the material surfaces, in a few seconds.

The curing speed depends on the gap width and the humidity level. A small gap width and a high humidity accelerate the setting process.

After a short time Cyanolit reaches high strength. The material continues to harden 24 hours after gluing. Only after this time is the optimum media resistance achieved.

The following table describes the setting times on different substrates.

Substrate	Curing time [sec]
PVC	5
PMMA	10
ABS	15
PC	20
NR	5
steel	10

Technical Data

Resin ethyl-2-cyanoacrylate
Appearance transparent
Gap width max [mm] 0,15

Uncured material

Viscosity [mPas]	30 – 50
Density [g/cm ³] PE-Norm 004	1,1
Flash point [°C] PE-Norm 050	>83

Cured material

Temperature resistance [°C]	-80 - 80
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Transport/Storage/Shelf Life

Trading unit	Transport	Storage	Shelf-life*
Other packages	at room temperature max. 25°C	0°C - 10°C	at delivery min. 4,5 months max. 9 months

Contact Details

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*Store in original, unopened containers!

Instructions for Use

Surface preparation

The surfaces to be bonded should be free of dust, oil, grease or other dirt in order to obtain an optimal and reproducible bond.

For cleaning we recommend the cleaner IPA. Substrates with low surface energy (e.g. polyethylene, polypropylene) must be pretreated in order to achieve sufficient adhesion.

Application

Our products are supplied ready to use. Depending on packaging they can be applied by hand directly from the container or semi or fully automatically.

Cyanoacrylate adhesives react very quickly with humidity (20% - 80%) or the moisture film on the materials. It is therefore advisable to wear gloves and goggles when handling larger quantities. Cyanolit is applied punctiform - one or more drops, depending on the size of the surface, onto one of the joining parts. The second joining part is fixed with slight pressure, whereby the adhesive is distributed into a thin film. Acid surfaces prevent or retard the curing, while basic surfaces (pH > 7) accelerate curing.

The application can take place directly from the tip of the dosing bottle, but also with dosing devices. Since the achievable strength depends on the application quantity, an even dosage must be taken into account.

Adhesive and substrate may not be cold and must be warmed up to room temperature prior to processing.

After application, bonding of the parts should be done quickly.

For safety information refer to our safety data sheet.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their particular use.

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