RITE-LOK® RT300B Cyanoacrylate Adhesive

Product Data Sheet

Updated : February 2007
Supersedes : New

Product Description

RITE-LOK RT300B is a medium viscosity, black, rubber-toughened Cyanoacrylate adhesive. RT300B displays excellent peel and impact strength and is well suited to applications involving vibration, thermal shock, temperature cycling and humidity.

Key Features

RT300B is specially formulated to provide a more flexible bond than standard cyanoacrylates.
RT300B can be used up to 105°C and has intermittent temperature resistance up to 125°C.
RT300B can be used to bond a wide variety of substrates including metals, plastics, rubbers, etc.

Physical Properties

Base	Modified Ethyl
Soluble In	Acetone, MEK
Viscosity (cps)	Range 300-1000 Typical Value 600
Specific Gravity	1.1
Colour	Black
Shelf Life	6 months from date of despatch when stored in the original carton at 21°C

Performance Characteristics

Maximum Gap Fill (best results are obtained with very thin bond lines)	0.20mm
Fixture Time	5-50secs
Tensile Strength (ISO 6922)	20 N/mm^2
Full Cure	24hrs
Speed of Cure	The speed of cure of cyanoacrylates varies according to the substrate to be bonded. Acidic surfaces such as paper and leather will have longer cure times than most plastics and rubbers.
Moisture Resistance	Cyanoacrylates generally have low resistance to high levels of moisture and humidity over time.
Service Temperature Range	-50 to +105°C

Additional Product Information	RITE-LOK Activators AC11 and AC12 may be used in conjunction with RITE-LOK cyanoacrylates where cure speed needs to be accelerated. Cure speeds of less than 2 seconds can be obtained with most RITE-LOK cyanoacrylates. The use of an activator can reduce the final bond strength by up to 30%.
Application Techniques	Bond speed is very fast so ensure that parts are properly aligned before bonding. RITE-LOK Activators may be required if there are gaps or porous surfaces. Some plastics may require application of RITE-LOK AC77 Primer. Ensure parts are clean, dry and free from oil and grease. Product is normally hand applied from the bottle. Apply sparingly to one surface and press parts firmly together until handling strength is achieved. As a general rule, as little cyanoacrylate as possible should be used – over application will result in slow cure speed and lower bond strength.
Storage Conditions	Keep the adhesive in a cool, dry place away from direct sunlight. Under such conditions shelf life at room temperature will be 12 months. Refrigeration to 5°C gives optimum storage stability.
Shelf Life	12 months from date of despatch when stored in the original carton at 21°C
Precautionary Information	Refer to product label and material Safety Data Sheet for health and safety information before using the product.
Product Use	All statements, technical information and recommendations contained in this document are based upon tests or experience that are reliable. However, many factors beyond control can affect the use and performance of a product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable the user's method or application.
Note	Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendation