



Scotch-Weld™ Cyanoacrylate

Adhesive EC100

Product Data Sheet

Updated :February 2010

Supersedes :February 2007

Product Description

Scotch-Weld EC100 is a medium viscosity (100 cPs) Ethyl Cyanoacrylate based adhesive. EC100 is suitable for bonding a wide range of materials.

Key Features

Scotch-Weld EC100 is specially formulated for high strength, general purpose bonding of most plastics, rubbers, metals and other common substrates. Recommended for use on assemblies with close fitting parts and relatively smooth, even surfaces.

Physical Properties

Base	Ethyl
Soluble In	Acetone, MEK
Viscosity (cps)	Range 80-120 Typical Value 100
Specific Gravity	1.06
Colour	Clear

Performance Characteristics

Maximum Gap Fill (best results are obtained with very thin bond lines)	0.15mm
Fixture Time	10-40secs
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	Low resistance to high levels of moisture and humidity over time.
Service Temperature Range	-50 to +80°C

Additional Product Information

Scotch-Weld Activators AC11 and AC12 may be used in conjunction with Scotch-Weld 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	<p>Bond speed is very fast so ensure that parts are properly aligned before bonding. Scotch-Weld Activators may be required if there are gaps or porous surfaces. Some plastics may require application of Scotch-Weld AC77 Primer.</p> <p>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.</p> <p>As a general rule, as little cyanoacrylate as possible should be used – over application will result in slow cure speed and lower bond strength.</p>
Storage Conditions	<p>Keep the adhesive in a cool, dry place away from direct sunlight. Under such conditions shelf life at room temperature will be 12 months.</p> <p>Refrigeration to 5° C gives optimum storage stability.</p>
Shelf Life	<p>12 months from date of despatch by 3M when stored in the original carton at 21°C</p>
Precautionary Information	<p>Refer to product label and material Safety Data Sheet for health and safety information before using the product. For information please contact your local 3M Office.</p> <p>www.3M.com</p>
For Additional Information	<p>To request additional information or to arrange for sales assistance, call 0870 6080050 Address correspondence to: 3M United Kingdom PLC, 3M House, 28 Great Jackson Street, Manchester, M15 4PA</p>
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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 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations

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3M United Kingdom PLC
3M House,
28 Great Jackson Street,
Manchester,
M15 4PA

Product Information :
Tel 0870 60 800 50
Fax 0870 60 700 99

3M Ireland Limited
The Iveagh Building
The Park, Carrickmines
Dublin 18,
Ireland

Customer Service :
Tel (01) 280 3555
Fax (01) 280 3509