# Scotch-Weld<sup>™</sup> 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 <sup>2</sup>
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**

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.

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 by 3M 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. For information please contact your local 3M Office.

www.3M.com

### For Additional Information

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

### **Important Notice**

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