3M Scotch-Weld[™] Cyanoacrylate Adhesive PR20

Product Data Sheet

Updated :February 2010 Supersedes:February 2007

Product Description

Scotch-Weld PR20 is a low viscosity Ethyl Cyanoacrylate adhesive. PR20 is formulated for very high speed, high strength bonding of plastics and rubbers.

Key Features

PR20 is specially formulated for the building of most plastics and rubbers, but will also bond other common substrates. Recommended for use on close-fitting parts and smooth, even surfaces. Can be post-applied to pre-assembled parts. Scotch-Weld PR grade cyanoacrylates are certified to USP Class VI

Physical Properties

Base	Ethyl
Soluble In	Acetone, MEK
Viscosity (cps)	Range 17-22 Typical Value 20
Specific Gravity	1.06
Colour	Clear

Performance Characteristics

Maximum Gap Fill (best results are obtained with very thin bond lines)	0.10mm
Fixture Time	2-20secs
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

otch-Weld Activators AC11 and AC12 may be used in conjunction with Scotch- ld cyanoacrylates where cure speed needs to be accelerated. Cure speeds of s than 2 seconds can be obtained with most Scotch-Weld cyanoacrylates. The of an activator can reduce the final bond strength by up to 30% and speed is very fast so ensure that parts are properly aligned before bonding. otch-Weld Activators may be required if there are gaps or porous surfaces. The plastics may require application of Scotch-Weld AC77 Primer. The parts are clean, dry and free from oil and grease. Product is normally hand alied from the bottle. Apply sparingly to one surface and press parts firmly there until handling strength is achieved. The parts are clean, as little cyanoacrylate as possible should be used — over considerable over the adhesive in a cool, dry place away from direct sunlight. Under such
otch-Weld Activators may be required if there are gaps or porous surfaces. The plastics may require application of Scotch-Weld AC77 Primer. Source parts are clean, dry and free from oil and grease. Product is normally hand blied from the bottle. Apply sparingly to one surface and press parts firmly either until handling strength is achieved. The ageneral rule, as little cyanoacrylate as possible should be used — over elication will result in slow cure speed and lower bond strength.
ditions shelf life at room temperature will be 12 months. rigeration to 5°C gives optimum storage stability.
months from date of despatch by 3M when stored in the original carton at 21°C
er to product label and material Safety Data Sheet for health and safety rmation before using the product. For information please contact your local 3M ce. www.3M.com
request additional information or to arrange for sales assistance, call 0870 80050 Address correspondence to: 3M United Kingdom PLC, 3M House, 28 eat Jackson Street, Manchester, M15 4PA
statements, technical information and recommendations contained in this sument are based upon tests or experience that 3M believes are reliable. Wever, many factors beyond 3M's control can affect the use and performance of M product in a particular application, including the conditions under which the duct is used and the time and environmental conditions in which the product is ected to perform. Since these factors are uniquely within the user's knowledge I control, it is essential that the user evaluate the 3M product to determine ether it is fit for a particular purpose and suitable the user's method or dication.

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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