Technical Data Sheet	Title: 0595 Superglue	TM
Effective Date: Feb 2020	Prepared By: Sam Murphy	ultratane
Issue Number: 8	Authorised By: Robin lamb	uttrutup
		BRUCE DOUGLAS MARKETING

Product Description

0595 superglue is a medium viscosity Ethyl Cyanoacrylate based adhesive, suitable for bonding a very wide range of material where fast cure speed is required.

Applications

General purpose bonding of most plastics, rubbers, metals and other common substrates. Recommended for use on assemblies lines with close fitting parts.

Features & Benefits

Fast curing Ready to use No mixing Permanent bond

Technical Performance of Uncured Material

Description		Value	Test Method
Chemical type		Ethyl	
Appearance		Clear	
Specific Gravity		1.06	
Viscosity cPs			
typical value		100	ISO 3104/3105I
Tensile Strength ²	(N/mm^2)	20	ISO 6922
Fixture Time	(secs)	10-30	
Full Cure	(hours)	24	
Flash Point	(°C)	>85	
Shelf Life @ 5°C	(months)	12	
Max Gap Fill	(mm)	0.15	
Operating Temperature	range (°C) -5	50 to +80	
TYPICAL CURING PERFORMANCE			
Typical Speed:			
Steel/steel	<30 se	econds	
ABS/ABS	<20 se	econds	
Rubber/rubber	<15sec	conds	

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Cure speed vs. substrate

The speed of cure of cyanoacrylate varies according to the substrates to be bonded, Acidic surfaces such as paper and leather will have longer cure times than most plastics and rubbers.

Cure speed vs. bond gap

Cyanoacrylates give best results on close fitting parts. The product should be applied in a very thin line in order to ensure rapid polymerisation and a strong bond. Excessive bond gaps will result in slower cure speeds

Cure speeds vs. environmental conditions

Cyanoacrylate adhesives require surface moisture on the substrates in order to initiate the curing mechanism. The speed of cure is reduced in low humidity conditions. Low temperatures will also reduce cure speed. All figures relating to cure speed are tested at 21° C

TYPICAL ENVIRONMENTAL RESISTANCE

Hot strength

Cyanoacrylate adhesives are suitable for use at temperatures up to 80° C. At 80° C the bond will be approximately 70% of the strength at 21°C. The bond strength at 100°C is approximately 50% of full strength at 21°C

Heat ageing

Cyanoacrylate retain over 90% of their strength when heated to 80°C for 90 days and then tested at 21°C gives bond strength of approximately 50% of initial strength.

Chemical/Solvent Resistance

Cyanoacrylate exhibit excellent chemical resistance to most oils and solvents including motor oil, leaded petrol, ethanol, propanol and feron. Cyanoacrylates are not resistant to high levels of moisture or humidity over time

REMOVAL OF CURED CYANOACRYLATE

It is not possible to fully remove cyanoacrylate from fabrics

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DIRECTIONS FOR USE

Bond speed is very fast so ensure that parts are properly aligned before bonding. 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.

PRESENTATION

Tubes 2g, 3g, 4.5g

GENERAL INFORMATION

For safe handling of this product consult the Material Safety Data Sheet

Declaration of Conformity Information

<u>REACH SVHC Status</u> – NO SVHC present according to candidates list of the UK 25/06/20 & EU 17/01/22

RoHS Compliance Status – Not Applicable

Storage Details

Store in a cool area out of direct sunlight. Refrigeration to 5°C gives optimum storage stability

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