

Chemical Concepts, Inc. 410 Pike Road • Huntingdon Valley, PA 19006

Page 1 of 1 December 2018

CA 5 Cyanoacrylate Adhesive

1. DESCRIPTION:

CA 5 is a low viscosity, rapid curing, cyanoacrylate adhesive. It is designed to bond a wide variety of similar and dissimilar materials. The handling strength in most applications is in the 5 to 10 seconds time period. This product can be post applied.

2. CHARACTERISTICS:

Color: Clear Viscosity: 5 CPS **Specific Color:** 1.05 Base: Ethyl

3. Performance Properties:

Substrate	Fixture Time	Вс	ond Strength
Steel	<18 seconds	>2	,200 PSI
Aluminum	<15 seconds	>1	,800 PSI
Neoprene	< 4 seconds	>	800 PSI
ABS	< 8 seconds	>	900 PSI
PVC	< 5 seconds	>	900 PSI
Lexan	< 25 seconds	>	900 PSI
Phenolic	< 10 seconds	>	900 PSI
Note: ISO45	87 is the method use	ed.	

4. Electrical Properties:

Dielectric Constant ASTM D150 Dissipation Factor 1 kHz 2.0 to 3.50/< .02

Volume Resistivity ASTM D257: 2 to 10 x 10¹⁵

5. Factors Affecting Cure Speed:

GAP: Thin bond lines result in faster cure speed. The larger bond gaps will lengthen cure speed. **HUMIDITY:** Cyanoacrylates cure as a function of water content. Higher humidity will cure products faster. Fixture times are normally measured at 50% relative humidity (RH).

6. Chemical/Solvent Resistance:

Percent of Strength retained after aging for	500 hours:
Gasoline at 75F	100%
Isopropanol (IPA) at 75F	100%
Ethanol (Denatured Alcohol) at 75F	100%
Freon TA at 75F	100%
Motor Oil at 105F	100%
Lexan (polycarbonate) at 105F & 95% RH	100%



7. What Cyanoacrylates Bond:

ABS NBR Acrylic Neoprene Aluminum Nitrile Rubber Bakelite Nylon Brass Phenolic Chloroprene Polycarbonate Polyester Chrome Copper Polystyrene **EPDM** Porcelain PVC Fiberglass SBR Latex Skin Leather Natural Rubber Steel Valox Wood

8. Directions for use and Storage:

For optimum results, parts should be clean and free from any oils, contamination or loose surfaces (rust). If parts do not mate flush or closely together, you will need to use a product that has higher viscosity to compensate for the gap. Any excess adhesive can be removed with Debonder. Store in unopened containers, out of the direct sunlight, in a dry location, at room temperature (75F). Refrigeration can extend shelf life.

9. ADDITIONAL INFORMATION

NOTE: Information contained herein is based on tests we believe to be reliable and accurate. It is offered in good faith for the benefit of the consumer. The Company shall not be liable for any injury, loss, or damage in the use or handling of its chemical products since conditions and use are beyond our control. In every case, we urge and recommend the user conduct tests to determine to their own satisfaction that the product is of acceptable quality and suitability for their particular purpose under their own operating conditions. Statements concerning possible use of our products are not intended as recommendations to use our products in the infringement of any patent, or for any particular purpose or application. These products are intended for industrial use only.



Chemical Concepts, Inc. 410 Pike Road • Huntingdon Valley, PA 19006

Page 1 of 1 December 2018

CA 30 Cyanoacrylate Adhesive

1. DESCRIPTION:

CA 30 is a low viscosity, rapid curing, cyanoacrylate adhesive. It is designed to bond a wide variety of similar and dissimilar materials. The handling strength in most applications is in the 5 to 10 seconds time period. This product can be post applied.

2. CHARACTERISTICS:

Color: Clear Viscosity: 30 CPS **Specific Color:** 1.05 Base: Ethyl

Eixturo Timo

3. Performance Properties:

Substrata

Substrate	rixture Time	Dona Su	engui
Steel	<18 seconds	>2,200 P	
Aluminum	<15 seconds	>1,800 P	
Neoprene	< 4 seconds	> 800 P	SI
ABS	< 8 seconds	> 900 P	SI
PVC	< 5 seconds	> 900 P	SI
Lexan	< 25 seconds	> 900 P	SI
Phenolic	< 10 seconds	> 900 P	SI
Note: ISO45	87 is the method us	ed.	

Rand Strongth

4. Electrical Properties:

Dielectric Constant ASTM D150 Dissipation Factor 1 kHz 2.0 to 3.50/< .02

Volume Resistivity ASTM D257: 2 to 10 x 10¹⁵

5. Factors Affecting Cure Speed:

GAP: Thin bond lines result in faster cure speed. The larger bond gaps will lengthen cure speed. **HUMIDITY:** Cyanoacrylates cure as a function of water content. Higher humidity will cure products faster. Fixture times are normally measured at 50% relative humidity (RH).

6. Chemical/Solvent Resistance:

Percent of Strength retained after aging for	500 hours:
Gasoline at 75F	100%
Isopropanol (IPA) at 75F	100%
Ethanol (Denatured Alcohol) at 75F	100%
Freon TA at 75F	100%
Motor Oil at 105F	100%
Lexan (polycarbonate) at 105F & 95% RH	100%



7. What Cyanoacrylates Bond:

ABS NBR Acrylic Neoprene Aluminum Nitrile Rubber Bakelite Nylon Brass Phenolic Chloroprene Polycarbonate Polyester Chrome Copper Polystyrene **EPDM** Porcelain PVC Fiberglass SBR Latex Skin Leather Natural Rubber Steel Valox Wood

8. Directions for use and Storage:

For optimum results, parts should be clean and free from any oils, contamination or loose surfaces (rust). If parts do not mate flush or closely together, you will need to use a product that has higher viscosity to compensate for the gap. Any excess adhesive can be removed with Debonder. Store in unopened containers, out of the direct sunlight, in a dry location, at room temperature (75F). Refrigeration can extend shelf life.

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Chemical Concepts, Inc. 410 Pike Road • Huntingdon Valley, PA 19006

Page 1 of 1 December 2018

CA 50 Cyanoacrylate Adhesive

1. DESCRIPTION:

CA 50 is a low viscosity, rapid curing, cyanoacrylate adhesive. It is designed to bond a wide variety of similar and dissimilar materials. The handling strength in most applications is in the 5 to 10 seconds time period. This product can be post applied.

2. CHARACTERISTICS:

Color: Clear Viscosity: 50 CPS **Specific Color:** 1.05 Base: Ethyl

Eixturo Timo

3. Performance Properties:

Substrata

Substrate	rixture Time	DC	ond Strei	igiri
Steel	<18 seconds	>2	2,200 PS	I
Aluminum	<15 seconds	>1	,800 PS	l
Neoprene	< 4 seconds	>	800 PS	l
ABS	< 8 seconds	>	900 PS	l
PVC	< 5 seconds	>	900 PS	l
Lexan	< 25 seconds	>	900 PS	l
Phenolic	< 10 seconds	>	900 PS	l
Note: ISO45	87 is the method us	sed.		

Rand Strongth

Note: ISO4587 is the method used.

4. Electrical Properties:

Dielectric Constant ASTM D150 Dissipation Factor 1 kHz 2.0 to 3.50/< .02

Volume Resistivity ASTM D257: 2 to 10 x 10¹⁵

5. Factors Affecting Cure Speed:

GAP: Thin bond lines result in faster cure speed. The larger bond gaps will lengthen cure speed. **HUMIDITY:** Cyanoacrylates cure as a function of water content. Higher humidity will cure products faster. Fixture times are normally measured at 50% relative humidity (RH).

6. Chemical/Solvent Resistance:

Percent of Strength retained after aging for	500 hours:
Gasoline at 75F	100%
Isopropanol (IPA) at 75F	100%
Ethanol (Denatured Alcohol) at 75F	100%
Freon TA at 75F	100%
Motor Oil at 105F	100%
Lexan (polycarbonate) at 105F & 95% RH	100%



7. What Cyanoacrylates Bond:

ABS NBR Acrylic Neoprene Aluminum Nitrile Rubber Bakelite Nylon Brass Phenolic Chloroprene Polycarbonate Polyester Chrome Copper Polystyrene **EPDM** Porcelain PVC Fiberglass SBR Latex Skin Leather Natural Rubber Steel Valox Wood

8. Directions for use and Storage:

For optimum results, parts should be clean and free from any oils, contamination or loose surfaces (rust). If parts do not mate flush or closely together, you will need to use a product that has higher viscosity to compensate for the gap. Any excess adhesive can be removed with Debonder. Store in unopened containers, out of the direct sunlight, in a dry location, at room temperature (75F). Refrigeration can extend shelf life.

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Chemical Concepts, Inc. 410 Pike Road, Huntingdon Valley, PA 19006

Page 1 of 1 December 2018

CA100 100 Cyanoacrylate Adhesive

1. DESCRIPTION:

CA100 is a medium viscosity, rapid curing, cyanoacrylate adhesive. It is designed to bond a wide variety of similar and dissimilar materials. The handling strength in most applications is in the 5 to 10 seconds time period. This product can be post applied.

2. CHARACTERISTICS:

Color:ClearViscosity:100 CPSSpecific Color:1.05Base:Ethyl

3. Performance Properties:

Substrate	Fixture Time	Bond Strength	
Steel Aluminum Neoprene ABS PVC Lexan	<18 seconds <15 seconds < 4 seconds < 8 seconds < 5 seconds < 25 seconds	>2,200 PSI >1,800 PSI > 800 PSI > 900 PSI > 900 PSI > 900 PSI	
Phenolic	< 10 seconds	> 900 PSI	
Note: ISO/1587 is the method used			

Note: ISO4587 is the method used.

4. Electrical Properties:

Dielectric Constant ASTM D150 Dissipation Factor 1 kHz 2.0 to 3.50/< .02

Volume Resistivity ASTM D257: 2 to 10 x 10¹⁵

5. Factors Affecting Cure Speed:

GAP: Thin bond lines result in faster cure speed. The larger bond gaps will lengthen cure speed. **HUMIDITY:** Cyanoacrylates cure as a function of water content. Higher humidity will cure products faster. Fixture times are normally measured at 50% relative humidity (RH).

6. Chemical/Solvent Resistance:

Percent of Strength retained after aging for	500 hours:
Gasoline at 75F	100%
Isopropanol (IPA) at 75F	100%
Ethanol (Denatured Alcohol) at 75F	100%
Freon TA at 75F	100%
Motor Oil at 105F	100%
Lexan (polycarbonate) at 105F & 95% RH	100%



7. What Cyanoacrylates Bond:

ABS NBR Acrylic Neoprene Aluminum Nitrile Rubber Bakelite Nylon Brass Phenolic Chloroprene Polycarbonate Chrome Polyester Polystyrene Copper Porcelain **EPDM Fiberglass** PVC SBR Latex Leather Skin Natural Rubber Steel Wood Valox

8. Directions for use and Storage:

For optimum results, parts should be clean and free from any oils, contamination or loose surfaces (rust). If parts do not mate flush or closely together, you will need to use a product that has higher viscosity to compensate for the gap. Any excess adhesive can be removed with Debonder. Store in unopened containers, out of the direct sunlight, in a dry location, at room temperature (75F). Refrigeration can extend shelf life.

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Page 1 of 1 December 2018

CA 500 Cyanoacrylate Adhesive

1. DESCRIPTION:

CA 500 is a medium viscosity, rapid curing, cyanoacrylate adhesive. It is designed to bond a wide variety of similar and dissimilar materials. The handling strength in most applications is in the 5 to 10 seconds time period.

2. CHARACTERISTICS:

Color: Clear Viscosity: 500 CPS **Specific Color:** 1.06 Base: Ethyl

3. Performance Properties:

Substrate	Fixture Time	В	and Strength
Steel	<18 seconds		2,200 PSI
Aluminum	<15 seconds		,800 PSI
Neoprene	< 4 seconds		800 PSI
ABS	< 8 seconds	>	900 PSI
PVC	< 5 seconds	>	900 PSI
Lexan	< 25 seconds	>	900 PSI
Phenolic	< 10 seconds	>	900 PSI
Note: ISO4587 is the method used.			

4. Electrical Properties:

Dielectric Constant ASTM D150 Dissipation Factor 1 kHz 2.0 to 3.50/< .02

Volume Resistivity ASTM D257: 2 to 10 x 10¹⁵

5. Factors Affecting Cure Speed:

GAP: Thin bond lines result in faster cure speed. The larger bond gaps will lengthen cure speed. **HUMIDITY:** Cyanoacrylates cure as a function of water content. Higher humidity will cure products faster. Fixture times are normally measured at 50% relative humidity (RH).

6. Chemical/Solvent Resistance:

Percent of Strength retained after aging for	500 hours:
Gasoline at 75F	100%
Isopropanol (IPA) at 75F	100%
Ethanol (Denatured Alcohol) at 75F	100%
Freon TA at 75F	100%
Motor Oil at 105F	100%
Lexan (polycarbonate) at 105F & 95% RH	100%



7. What Cyanoacrylates Bond:

ABS NBR Acrylic Neoprene Aluminum Nitrile Rubber Bakelite Nylon Brass Phenolic Chloroprene Polycarbonate Polyester Chrome Copper Polystyrene **EPDM** Porcelain PVC Fiberglass SBR Latex Skin Leather Natural Rubber Steel Valox Wood

8. Directions for use and Storage:

For optimum results, parts should be clean and free from any oils, contamination or loose surfaces (rust). If parts do not mate flush or closely together, you will need to use a product that has higher viscosity to compensate for the gap. Any excess adhesive can be removed with Debonder. Store in unopened containers, out of the direct sunlight, in a dry location, at room temperature (75F). Refrigeration can extend shelf life.

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Chemical Concepts, Inc. 410 Pike Road • Huntingdon Valley, PA 19006

Page 1 of 1 December 2018

CA 1000 Cyanoacrylate Adhesive

1. DESCRIPTION:

CA 1000 is a Medium viscosity, rapid curing, cyanoacrylate adhesive. It is designed to bond a wide variety of similar and dissimilar materials. The handling strength in most applications is in the 5 to 10 seconds time period.

2. CHARACTERISTICS:

Color:ClearViscosity:1000 CPSSpecific Color:1.06Base:Ethyl

3. Performance Properties:

Substrate	Fixture Time	Bond Strength	
Steel	<18 seconds	>2,200 PSI	
Aluminum	<15 seconds	>1,800 PSI	
Neoprene	< 4 seconds	> 800 PSI	
ABS	< 8 seconds	> 900 PSI	
PVC	< 5 seconds	> 900 PSI	
Lexan	< 25 seconds	> 900 PSI	
Phenolic	< 10 seconds	> 900 PSI	
Note: ISO4587 is the method used			

Note: ISO4587 is the method used.

4. Electrical Properties:

Dielectric Constant ASTM D150 Dissipation Factor 1 kHz 2.0 to 3.50/< .02

Volume Resistivity ASTM D257: 2 to 10 x 10¹⁵

5. Factors Affecting Cure Speed:

GAP: Thin bond lines result in faster cure speed. The larger bond gaps will lengthen cure speed. **HUMIDITY:** Cyanoacrylates cure as a function of water content. Higher humidity will cure products faster. Fixture times are normally measured at 50% relative humidity (RH).

6. Chemical/Solvent Resistance:

Percent of Strength retained after aging for	500 hours:
Gasoline at 75F	100%
Isopropanol (IPA) at 75F	100%
Ethanol (Denatured Alcohol) at 75F	100%
Freon TA at 75F	100%
Motor Oil at 105F	100%
Lexan (polycarbonate) at 105F & 95% RH	100%



7. What Cyanoacrylates Bond:

ABS NBR Acrylic Neoprene Aluminum Nitrile Rubber Bakelite Nylon Brass Phenolic Polycarbonate Chloroprene Polyester Chrome Copper Polystyrene **EPDM** Porcelain PVC Fiberglass SBR Latex Skin Leather Natural Rubber Steel Valox Wood

8. Directions for use and Storage:

For optimum results, parts should be clean and free from any oils, contamination or loose surfaces (rust). If parts do not mate flush or closely together, you will need to use a product that has higher viscosity to compensate for the gap. Any excess adhesive can be removed with Debonder. Store in unopened containers, out of the direct sunlight, in a dry location, at room temperature (75F). Refrigeration can extend shelf life.

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Chemical Concepts, Inc. 410 Pike Road • Huntingdon Valley, PA 19006

Page 1 of 1 December 2018

CA 1500 Cyanoacrylate Adhesive

1. DESCRIPTION:

CA 1500 is a Medium viscosity, rapid curing, cyanoacrylate adhesive. It is designed to bond a wide variety of similar and dissimilar materials. The handling strength in most applications is in the 5 to 10 seconds time period.

2. CHARACTERISTICS:

Color: Clear Viscosity: 1500 CPS **Specific Color:** 1.06 Base: Ethyl

3. Performance Properties:

4. Electrical Properties:

Dielectric Constant ASTM D150 Dissipation Factor 1 kHz 2.0 to 3.50/< .02

Volume Resistivity ASTM D257: 2 to 10 x 10¹⁵

5. Factors Affecting Cure Speed:

GAP: Thin bond lines result in faster cure speed. The larger bond gaps will lengthen cure speed. **HUMIDITY:** Cyanoacrylates cure as a function of water content. Higher humidity will cure products faster. Fixture times are normally measured at 50% relative humidity (RH).

6. Chemical/Solvent Resistance:

Percent of Strength retained after aging for	500 hours:
Gasoline at 75F	100%
Isopropanol (IPA) at 75F	100%
Ethanol (Denatured Alcohol) at 75F	100%
Freon TA at 75F	100%
Motor Oil at 105F	100%
Lexan (polycarbonate) at 105F & 95% RH	100%



7. What Cyanoacrylates Bond:

ABS NBR Acrylic Neoprene Aluminum Nitrile Rubber Bakelite Nylon Brass Phenolic Polycarbonate Chloroprene Polyester Chrome Copper Polystyrene **EPDM** Porcelain PVC Fiberglass SBR Latex Skin Leather Natural Rubber Steel Valox Wood

8. Directions for use and Storage:

For optimum results, parts should be clean and free from any oils, contamination or loose surfaces (rust). If parts do not mate flush or closely together, you will need to use a product that has higher viscosity to compensate for the gap. Any excess adhesive can be removed with Debonder. Store in unopened containers, out of the direct sunlight, in a dry location, at room temperature (75F). Refrigeration can extend shelf life.

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Wood

Page 1 of 1 December 2018

CA 2400 Cyanoacrylate Adhesive

1. DESCRIPTION:

CA 2400 is a high viscosity, rapid curing, cyanoacrylate adhesive. It is designed to bond a wide variety of similar and dissimilar materials. The handling strength in most applications is in the 5 to 10 seconds time period.

2. CHARACTERISTICS:

Color: Clear Viscosity: 2400 CPS **Specific Color:** 1.07 Base: Ethyl

3. Performance Properties:

Substrate	Fixture Time	Bond Strength		
Steel	<18 seconds	>2,200 PSI		
Aluminum	<15 seconds	>1,800 PSI		
Neoprene	< 4 seconds	> 800 PSI		
ABS	< 8 seconds	> 900 PSI		
PVC	< 5 seconds	> 900 PSI		
Lexan	< 25 seconds	> 900 PSI		
Phenolic	< 10 seconds	> 900 PSI		
Note: ISO4587 is the method used				

Note: ISO4587 is the method used.

4. Electrical Properties:

Dielectric Constant ASTM D150 Dissipation Factor 1 kHz 2.0 to 3.50/< .02

Volume Resistivity ASTM D257: 2 to 10 x 10¹⁵

5. Factors Affecting Cure Speed:

GAP: Thin bond lines result in faster cure speed. The larger bond gaps will lengthen cure speed. **HUMIDITY:** Cyanoacrylates cure as a function of water content. Higher humidity will cure products faster. Fixture times are normally measured at 50% relative humidity (RH).

6. Chemical/Solvent Resistance:

Percent of Strength retained after aging for	500 hours:
Gasoline at 75F	100%
Isopropanol (IPA) at 75F	100%
Ethanol (Denatured Alcohol) at 75F	100%
Freon TA at 75F	100%
Motor Oil at 105F	100%
Lexan (polycarbonate) at 105F & 95% RH	100%



7. What Cyanoacrylates Bond:

ABS NBR Acrylic Neoprene Aluminum Nitrile Rubber Bakelite Nylon Brass Phenolic Polycarbonate Chloroprene Polyester Chrome Copper Polystyrene **EPDM** Porcelain PVC Fiberglass SBR Latex Skin Leather Natural Rubber Steel Valox

8. Directions for use and Storage:

For optimum results, parts should be clean and free from any oils, contamination or loose surfaces (rust). If parts do not mate flush or closely together, you will need to use a product that has higher viscosity to compensate for the gap. Any excess adhesive can be removed with Debonder. Store in unopened containers, out of the direct sunlight, in a dry location, at room temperature (75F). Refrigeration can extend shelf life.

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Page 1 of 1 December 2018

CA 3000 Cyanoacrylate Adhesive

1. DESCRIPTION:

CA 3000 is a high viscosity, rapid curing, cyanoacrylate adhesive. It is designed to bond a wide variety of similar and dissimilar materials. The handling strength in most applications is in the 5 to 10 seconds time period.

2. CHARACTERISTICS:

Color:ClearViscosity:3000 CPSSpecific Color:1.07Base:Ethyl

3. Performance Properties:

4. Electrical Properties:

Dielectric Constant ASTM D150 Dissipation Factor 1 kHz 2.0 to 3.50/< .02

Volume Resistivity ASTM D257: 2 to 10 x 10¹⁵

5. Factors Affecting Cure Speed:

GAP: Thin bond lines result in faster cure speed. The larger bond gaps will lengthen cure speed. **HUMIDITY:** Cyanoacrylates cure as a function of water content. Higher humidity will cure products faster. Fixture times are normally measured at 50% relative humidity (RH).

6. Chemical/Solvent Resistance:

<u> Thomas Convent Recordance</u>	<u> </u>
Percent of Strength retained after aging for	500 hours:
Gasoline at 75F	100%
Isopropanol (IPA) at 75F	100%
Ethanol (Denatured Alcohol) at 75F	100%
Freon TA at 75F	100%
Motor Oil at 105F	100%
Lexan (polycarbonate) at 105F & 95% RH	100%



7. What Cyanoacrylates Bond:

ABS NBR Acrylic Neoprene Aluminum Nitrile Rubber Bakelite Nylon Brass Phenolic Chloroprene Polycarbonate Polyester Chrome Copper Polystyrene **EPDM** Porcelain **PVC** Fiberglass SBR Latex Skin Leather Natural Rubber Steel Valox Wood

8. Directions for use and Storage:

For optimum results, parts should be clean and free from any oils, contamination or loose surfaces (rust). If parts do not mate flush or closely together, you will need to use a product that has higher viscosity to compensate for the gap. Any excess adhesive can be removed with Debonder. Store in unopened containers, out of the direct sunlight, in a dry location, at room temperature (75F). Refrigeration can extend shelf life.

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Chemical Concepts, Inc. 410 Pike Road • Huntingdon Valley, PA 19006

Page 1 of 1 December 2018

CA 4000 Cyanoacrylate Adhesive

1. DESCRIPTION:

CA 4000 is a high viscosity, rapid curing, cyanoacrylate adhesive. It is designed to bond a wide variety of similar and dissimilar materials. The handling strength in most applications is in the 15 to 20 seconds time period.

2. CHARACTERISTICS:

Color:ClearViscosity:4000 CPSSpecific Color:1.08Base:Ethyl

3. Performance Properties:

4. Electrical Properties:

Dielectric Constant ASTM D150 Dissipation Factor 1 kHz 2.0 to 3.50/< .02

Volume Resistivity ASTM D257: 2 to 10 x 10¹⁵

5. Factors Affecting Cure Speed:

GAP: Thin bond lines result in faster cure speed. The larger bond gaps will lengthen cure speed. **HUMIDITY:** Cyanoacrylates cure as a function of water content. Higher humidity will cure products faster. Fixture times are normally measured at 50% relative humidity (RH).

6. Chemical/Solvent Resistance:

Percent of Strength retained after aging for	500 hours:
Gasoline at 75F	100%
Isopropanol (IPA) at 75F	100%
Ethanol (Denatured Alcohol) at 75F	100%
Freon TA at 75F	100%
Motor Oil at 105F	100%
Lexan (polycarbonate) at 105F & 95% RH	100%



7. What Cyanoacrylates Bond:

ABS NBR Acrylic Neoprene Aluminum Nitrile Rubber Bakelite Nylon Brass Phenolic Polycarbonate Chloroprene Polyester Chrome Copper Polystyrene **EPDM** Porcelain PVC Fiberglass SBR Latex Skin Leather Natural Rubber Steel Valox Wood

8. Directions for use and Storage:

For optimum results, parts should be clean and free from any oils, contamination or loose surfaces (rust). If parts do not mate flush or closely together, you will need to use a product that has higher viscosity to compensate for the gap. Any excess adhesive can be removed with Debonder. Store in unopened containers, out of the direct sunlight, in a dry location, at room temperature (75F). Refrigeration can extend shelf life.

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