VEL QUICK

LV

LOW VISCOSITY

HIGH PERFORMANCE
INSTANT CYANOACRYLATE
ADHESIVE

VELWIIN
CHEMICALS

- SINGLE COMPONENT
- FAST SETTING
- INDUSTRIAL GRADE INSTANT ADHESIVE


FAST BONDING


SINGLE COMPONENT


EASY TO USE


EXCELLENT PENETRATION


HOUSEHOLD PRODUCT


INDUSTRIAL USE

KEY FEATURES

- Ultra Fast Bonding
- High Strength Adhesion
- One Component Formula
- Solvent Free
- Easy to Apply
- Clear Transparent Finish
- Suitable for Industrial & Household Use
- Bonds Within Seconds
- Long Shelf Life

AVAILABLE PACK SIZES

- 20 g
- 50 g

DESCRIPTION

VEL-QUICK is a premium-grade, single-component cyanoacrylate adhesive engineered to provide rapid bonding with exceptional strength on a wide range of non-porous materials. Its low-viscosity formulation offers excellent flow characteristics, allowing the adhesive to penetrate closely fitted surfaces for fast and reliable bonding.

The adhesive cures rapidly when exposed to atmospheric moisture, eliminating the need for heat, catalysts or additional activators under normal bonding conditions. Once cured, it forms a strong, durable bond with excellent mechanical performance.

VEL-QUICK is suitable for industrial manufacturing, repair applications, maintenance work and general-purpose bonding where instant adhesion and long-term reliability are essential.

FEATURES & ADVANTAGES

- Fast setting within seconds.
- High bonding strength on a wide variety of materials.
- Single-component formulation requiring no mixing.
- Solvent-free and easy to use.
- Excellent flowability for close-fitting surfaces.
- Produces a clear, neat bond line.
- Ideal for precision assembly and repair work.
- Suitable for professional, industrial and DIY applications.
- Excellent penetration into narrow bonding gaps.
- Delivers reliable and durable bonding performance.

AREA OF APPLICATION

VEL-QUICK is designed for rapid bonding of a wide range of materials where instant adhesion and high bond strength are required.

Suitable Materials

- Rubber & Synthetic Rubber
- Plastics
- Metal
- Stainless Steel
- Aluminium
- Copper
- Zinc-Plated Components
- Wood
- MDF & Plywood
- Ceramic
- Porcelain
- Leather
- Glass
- Paper

Typical Applications

- Industrial Assembly
- Automotive Components
- Electrical & Electronic Parts
- Plastic Component Bonding
- Rubber Seal Bonding
- Metal Fabrication
- Furniture Manufacturing
- Wooden Articles
- Leather Goods
- Craft & Hobby Applications
- Household Repairs
- Packaging Industry
- Promotional Product Assembly
- General Maintenance & Repair Work

VEL-QUICK is recommended for bonding close-fitting, non-porous surfaces where a fast-setting, high-strength adhesive is required.

LIMITATIONS

- Not recommended for bonding Polyethylene (PE), Polypropylene (PP), PTFE (Teflon®) or silicone rubber unless a suitable primer is used.
- Not suitable for applications requiring large gap filling.
- Avoid continuous immersion in water or prolonged exposure to high humidity unless validated by application testing.
- Do not use on dirty, oily or contaminated surfaces without proper cleaning.

- Avoid application on flexible joints subjected to continuous movement.
- For porous materials, bonding performance may vary depending on surface condition. Always perform a compatibility test before use on sensitive plastics or specialty materials.
- Store the product in its original tightly closed container to maintain optimum performance.

TECHNICAL INFORMATION

TYPICAL PROPERTIES OF UNCURED ADHESIVE

Property	Typical Value
Chemical Base	Ethyl Cyanoacrylate
Appearance	Clear to Light Yellow Liquid
Colour	Transparent
Specific Gravity @ 25°C	Approx. 1.05
Refractive Index (nD20)	1.439
Viscosity @ 25°C	1.8 – 5 cP
Flash Point	Refer to SDS
Vapour Pressure	< 1 hPa
Shelf Life	12 Months

PHYSICAL PROPERTIES OF CURED ADHESIVE

Property	Typical Value
Appearance	Clear
Softening Point	165°C
Coefficient of Thermal Expansion	$100 \times 10^{-6}\ K^{-1}$
Thermal Conductivity	0.10 W/m·K

CURING PERFORMANCE

Typical Fixture Time

Substrate	Fixture Time
Steel to Steel	10 – 30 Seconds
Stainless Steel	30 – 60 Seconds
Aluminium	5 – 15 Seconds
Zinc Plated Metal	30 – 90 Seconds
ABS to ABS	5 – 10 Seconds
ABS to NBR	3 – 5 Seconds
ABS to Wood	5 – 10 Seconds
NBR to NBR	3 – 5 Seconds
Wood	50 – 60 Seconds
Polycarbonate	20 – 60 Seconds

ELECTRICAL PROPERTIES

Property	Typical Value
Volume Resistivity	2 – 10 × 10^{15} Ω·cm
Surface Resistivity	10 – 80 × 10^{15} Ω
Dielectric Constant @ 10 kHz	2.5
Dissipation Factor @ 10 kHz	< 0.02
Dielectric Breakdown Strength	25 kV/mm

MECHANICAL PROPERTIES

Typical Tensile Bond Strength (After 24 Hours at 25°C)

Bonded Material	Typical Strength
Steel	190 – 210 kg/cm²
Stainless Steel	250 – 450 kg/cm²
Aluminium	170 – 190 kg/cm²
Copper	150 – 170 kg/cm²
PVC	40 – 60 kg/cm²
ABS	50 – 70 kg/cm²
Polycarbonate	80 – 120 kg/cm²
Polystyrene	30 – 45 kg/cm²
NBR Rubber	5 – 9 kg/cm²
SBR Rubber	5 – 10 kg/cm²

The above values are typical laboratory results obtained under controlled conditions. Actual performance may vary depending on substrate type, surface preparation, environmental conditions and application method.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

For optimum bonding performance, all surfaces must be clean, dry and free from dust, oil, grease, rust, paint, release agents or any other contaminants.
Smooth surfaces should fit closely together to ensure maximum adhesive contact. Better surface preparation results in higher bond strength and faster curing.
For metals, surface cleaning with a suitable solvent is recommended. Plastics, rubber and glass should also be free from moisture and contaminants before bonding.

APPLICATION METHOD

1. Ensure that both bonding surfaces are properly prepared and completely dry.
2. Apply one or more small drops of VEL-QUICK to one surface only. Use only the quantity required to form a thin adhesive film after joining.
3. Immediately bring both surfaces together and apply firm, even pressure for a few seconds.
4. Initial handling strength is generally achieved within a few seconds to one minute, depending on the substrate.
5. Maximum bond strength develops after 24–48 hours under normal curing conditions.
6. After use, wipe the nozzle clean and close the cap tightly to prevent moisture contamination.

BONDING PERFORMANCE

- Fast fixture time on most non-porous materials.
- Excellent adhesion with a very thin bond line.
- Best performance is achieved with close-fitting components.
- Bond strength and curing speed depend on substrate type, bond gap, temperature and humidity.
- Full mechanical properties are achieved only after complete curing.

HANDLING & STORAGE

- Store the product in its original unopened container.
- Keep in a cool, dry and well-ventilated place away from direct sunlight.
- Recommended storage temperature is 2°C to 8°C for extended shelf life.
- Do not freeze the product.
- Keep the container tightly closed when not in use to avoid contamination by atmospheric moisture.
- Do not return unused adhesive back into the original container after dispensing.

PRECAUTIONS

- Use only in well-ventilated areas.
- Avoid contact with skin, eyes and clothing.
- If skin bonding occurs, soak with warm water or use acetone to assist removal. Do not forcibly separate bonded skin.
- In case of eye contact, rinse immediately with plenty of clean water and seek medical attention.
- Keep out of reach of children.
- Always read the latest Safety Data Sheet (SDS) before use.

DISCLAIMER

The technical information contained in this Technical Data Sheet is based on laboratory testing and practical experience. Since application methods, working conditions and substrates are beyond the control of Velwiin Chemicals, users should verify the suitability of the product for their specific application before use.
Velwiin Chemicals reserves the right to modify product specifications without prior notice as part of its continuous product development programme.

SHELF LIFE

12 months from the date of manufacture when stored in the original unopened container under recommended storage conditions.

RECOMMENDED STORAGE TEMPERATURE

Store between 2°C and 8°C for extended shelf life.
For normal storage, keep the container tightly closed in a cool, dry place away from direct sunlight, moisture and excessive heat. Do not freeze the product.

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