

VEL QUICK

HHV

HIGH HEAVY
VISCOSITY

HIGH VISCOSITY
CYANOACRYLATE
ADHESIVE



- SINGLE COMPONENT
- HIGH VISCOSITY
- GAP FILLING
- INDUSTRIAL GRADE INSTANT ADHESIVE



FAST
BONDING



SINGLE
COMPONENT



EASY TO USE



EXCELLENT
PENETRATION



HOUSEHOLD
PRODUCT



INDUSTRIAL USE

KEY FEATURES

- High Viscosity Formula
- Excellent Gap Filling Properties
- Strong & Durable Bond
- Fast Curing Performance
- One Component System
- Solvent Free
- Easy to Apply
- Excellent Adhesion on Wood, WPC & PVC
- Suitable for Industrial & Household Applications
- Long Shelf Life

AVAILABLE PACK SIZES

- 50 g

DESCRIPTION

VEL-QUICK (HHV) is a premium-quality, high-viscosity ethyl cyanoacrylate adhesive specially formulated for applications requiring excellent gap-filling capability and superior bonding strength. Its thicker consistency makes it ideal for rough, porous and slightly irregular surfaces where low-viscosity adhesives may not perform effectively.

The adhesive cures rapidly upon exposure to atmospheric moisture, producing a strong and durable bond without the need for heat, catalysts or clamps. It is suitable for bonding a wide range of materials including wood, WPC, PVC, rubber, metals, plastics, ceramics and many other engineering materials.

VEL-QUICK (HHV) is widely used in furniture manufacturing, modular interiors, WPC/PVC profile assembly, industrial production, maintenance work and general repair applications where reliable instant bonding is required.

FEATURES & ADVANTAGES

- High-viscosity formulation for improved gap filling.
- Excellent bonding on WPC, PVC, wood, rubber, metal and plastics.
- Fast curing with outstanding bond strength.
- Single-component adhesive requiring no mixing.
- Solvent-free and easy to use.
- Suitable for vertical and uneven surfaces.
- Provides durable, long-lasting adhesion.
- Excellent resistance to vibration and normal service conditions.
- Ideal for industrial assembly and repair applications.
- Suitable for professional as well as general-purpose use.

AREA OF APPLICATION

VEL-QUICK (HHV) is specially developed for bonding porous, rough and slightly uneven surfaces where a high-viscosity instant adhesive is required. It provides excellent adhesion across a wide variety of engineering and construction materials.

Suitable Materials

- WPC & PVC Profiles
- Wood & Timber
- MDF & Plywood
- Rubber
- ABS & PVC Plastic
- Polycarbonate
- Acrylic
- Aluminium
- Mild Steel
- Stainless Steel
- Ceramic
- Leather
- Paper & Cardboard

VEL-QUICK (HHV) is recommended for applications where high bond strength, gap-filling capability and rapid curing are required.

Typical Applications

- WPC Profile Assembly
- PVC Profile Bonding
- Furniture Manufacturing
- Modular Furniture
- Interior Decoration
- Woodworking Applications
- Plastic Component Assembly
- Rubber Bonding
- Metal Component Bonding
- Electrical & Electronic Assembly
- Handicrafts & Hobby Projects
- Industrial Manufacturing
- General Maintenance & Repair Work

LIMITATIONS

- Not recommended for bonding Polyethylene (PE), Polypropylene (PP), PTFE (Teflon®) or silicone rubber without the use of a suitable primer.
- Do not use where large structural gaps or flexible joints are present.
- Avoid application on wet, oily, dusty or contaminated surfaces.
- Continuous immersion in water or prolonged exposure to aggressive chemicals is not recommended unless verified by application testing.

- Bonding performance may vary on highly porous or absorbent materials.
- Always conduct a compatibility test before use on coated, painted or specialty plastics.
- Keep the container tightly closed after use to prevent premature curing caused by atmospheric moisture.

TECHNICAL INFORMATION

TYPICAL PROPERTIES OF UNCURED ADHESIVE

Property	Typical Value
Chemical Base	Ethyl Cyanoacrylate
Appearance	Transparent to Light Yellow Liquid
Colour	Clear / Light Yellow
Specific Gravity @ 25°C	1.1
Refractive Index (nD20)	1.439
Flash Point	Refer to SDS
Vapour Pressure	< 1 hPa
Viscosity @ 25°C	1500 – 1800 cP
Shelf Life	10 Months

PHYSICAL PROPERTIES OF CURED ADHESIVE

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

CURING PERFORMANCE

Typical Fixture Time

Substrate	Fixture Time
Steel to Steel	20 – 55 Seconds
Stainless Steel	30 – 90 Seconds
Aluminium	10 – 30 Seconds
Zinc Plated Metal	40 – 90 Seconds
ABS to ABS	15 – 45 Seconds
ABS to NBR	5 – 15 Seconds
ABS to Wood	5 – 10 Seconds
NBR to NBR	5 – 10 Seconds
Wood	5 – 10 Seconds
Polycarbonate	20 – 60 Seconds

ELECTRICAL PROPERTIES

Property	Typical Value
Volume Resistivity	$1 \times 10^{16} \Omega \cdot \text{cm}$
Surface Resistivity	$1 \times 10^{16} \Omega$
Dielectric Constant @ 10 kHz	2.3 – 2.5
Dielectric 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/cm ²
Stainless Steel	250 – 450 kg/cm ²
Aluminium	170 – 190 kg/cm ²
Copper	150 – 170 kg/cm ²
PVC	40 – 60 kg/cm ²
ABS	50 – 70 kg/cm ²
Polycarbonate	80 – 120 kg/cm ²
Polystyrene	30 – 45 kg/cm ²
NBR Rubber	5 – 9 kg/cm ²
SBR Rubber	5 – 10 kg/cm ²

The above values are typical laboratory test results and may vary depending on substrate type, surface preparation, environmental conditions and application method.

APPLICATION INSTRUCTIONS

- Ensure all bonding surfaces are clean, dry and free from dust, grease, oil, rust, paint or any other contaminants.
- For optimum adhesion, clean metal surfaces with a suitable solvent before bonding.
- Plastic, rubber, glass and WPC/PVC surfaces should also be clean and moisture-free.
- Closely fitting surfaces provide the highest bond strength and the fastest curing performance.
- Proper surface preparation significantly improves the durability and reliability of the bonded joint.

APPLICATION METHOD

- Clean and dry both bonding surfaces before application.
- Apply one or more small drops of VEL-QUICK (HHV) to one surface only. Use only enough adhesive to create a thin bond line after joining.
- Immediately assemble the parts and apply firm, uniform pressure for several seconds.
- Initial handling strength is generally achieved within less than one minute, depending on the substrate and bonding conditions.
- Maximum bond strength is normally achieved after 24–48 hours under standard curing conditions.
- After dispensing, wipe the nozzle clean and close the cap tightly to prevent contamination from atmospheric moisture.

BONDING PERFORMANCE

- High-strength bonding on WPC, PVC, wood, rubber, plastics and metals.
- Excellent gap-filling capability due to its high-viscosity formulation.
- Fast curing with reliable long-term bond strength.
- Best results are achieved on closely fitted surfaces with proper surface preparation.
- Full mechanical properties are obtained after complete curing.

HANDLING & STORAGE

- Store the product in its original unopened container in a cool, dry place.
- For extended shelf life, store between 2°C and 8°C.
- Temperatures below 2°C may adversely affect product performance.
- Do not freeze the product.
- Keep the container tightly closed when not in use to prevent moisture contamination.
- Do not pour unused adhesive back into the original container after dispensing.

PRECAUTIONS

- Use only in well-ventilated areas.
- Avoid contact with skin, eyes and clothing.
- If the adhesive comes into contact with skin, rinse 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.
- Store in a cool, dry place away from direct sunlight and sources of heat.
- Always refer to 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, substrates and working conditions are beyond the control of Velwiin Chemicals, users should verify the suitability of the product for their intended application before use.

Velwiin Chemicals reserves the right to modify product specifications without prior notice as part of its continuous product improvement 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.

Manufactured By : Velwiin Chemicals

Laxmi Industrial Estate, Near Laxmi Weighing Bridge,
Khokhra Hanuman Road, Bela, Morbi, Gujarat, India -
363642.

Mobile : +91 99097 75135

Email : velwiinchemicals@gmail.com

Website : www.velwiin.com