

VEL BOND

STRONG AND CLEAR
EPOXY ADHESIVE

HIGH-STRENGTH,
TWO-COMPONENT,
TRANSPARENT EPOXY
ADHESIVE SYSTEM



AVAILABLE

- 450 GM
- 1.800 KG



TWO
COMPONENT



HIGH
STRENGTH



ODOURLESS



BEST FOR
MARBLE WORK



IDEAL SETTING
TIME OF 30
MINUTES



IDEAL WORKING
TIME OF 15
MINUTES

PRODUCT TYPE

VEL-BOND is a ideal setting and working 30-minute & 15-minute high-strength, two-component transparent epoxy adhesive system.

KEY FEATURES

- Two-component epoxy adhesive for strong and permanent bonding.
- Crystal-clear finish for applications where bond visibility is important.
- High mechanical strength for long-lasting performance.
- Fast curing formulation with convenient working time.
- Excellent adhesion to a wide variety of construction and engineering materials.
- Non-shrinking formulation ensures dimensional stability after curing.
- Provides durable performance in both repair and assembly applications.
- Easy to mix and apply with equal proportions of Part A and Part B.

DESCRIPTION

VEL-BOND is a premium-quality, two-component transparent epoxy adhesive developed by Velwiin Chemicals for high-strength bonding and repair applications. The product is formulated to create a clear, durable, and long-lasting bond between a wide range of materials.

Its versatile formulation makes it suitable for bonding metals, ceramics, wood, marble, glass, concrete, tiles, fiberglass, chrome, and other compatible substrates. In addition to adhesive applications, VEL-BOND can also be used for filling gaps, repairing surface defects, and assembling components where a transparent bond line and reliable mechanical strength are required.

RECOMMENDED APPLICATIONS

VEL-BOND is designed for bonding, repairing, sealing, and assembling a wide range of materials in residential, commercial, automotive, and industrial applications.

Suitable Materials

- Metal
- Ceramic
- Glass
- Marble
- Granite
- Concrete
- Wood
- Plywood
- Fiberglass
- Chrome
- Ceramic Tiles
- Stone
- Other compatible rigid materials

Recommended Applications

- General household repairs
- Metal component bonding
- Ceramic and glass repairs
- Marble and stone fixing
- Furniture repair and assembly
- Gap filling and crack repairs
- Industrial maintenance work
- Automotive component repairs
- Decorative item restoration
- Bonding applications requiring a transparent finish
- Medium and large component assembly

Typical Uses : VEL-BOND is especially suitable where a clear, almost invisible bond line is required without compromising bonding strength. It can also be used for repairing damaged surfaces, sealing small cavities, and assembling different materials with excellent durability.

SURFACE PREPARATION & MIXING INSTRUCTIONS

SURFACE PREPARATION

To achieve optimum bonding performance, ensure that all surfaces are properly prepared before applying VEL-BOND.

Surfaces must be clean, dry, and free from dust, grease, oil, wax, paint, rust, or any loose contaminants. Smooth or glossy surfaces should be roughened using sandpaper or other suitable abrasive methods to improve adhesion.

Glass and ceramic surfaces should be cleaned thoroughly with soap and water, rinsed, and allowed to dry completely before application.

Ensure all parts are properly aligned and dry-fit before mixing the adhesive.

MIXING INSTRUCTIONS

VEL-BOND consists of Part A (Resin) and Part B (Hardener). Dispense equal quantities of both components in a 1:0.8 ratio. Mix thoroughly for approximately one minute until a uniform, streak-free mixture is obtained. For improved bonding, allow the mixed adhesive to stand for 1–2 minutes before application.

Apply the mixed adhesive evenly to both bonding surfaces.
Join the components within the recommended working time and maintain proper alignment until the adhesive begins to set.
Remove excess adhesive immediately using a suitable cleaning solvent before curing.
Allow the bonded assembly to remain undisturbed until the adhesive has fully cured. Full curing is normally achieved within 24 hours under standard conditions.

TECHNICAL CHARACTERISTICS

Property	Specification
Product Type	Two-Component Adhesive
Resin Component (Part A)	Clear, Viscous Liquid
Hardener Component (Part B)	Clear, Viscous Liquid
Colour	Transparent / Colourless
Mixing Ratio (Resin : Hardener)	1 : 0.8 (100 : 80 by volume)
Pot Life (25°C)	Approximately 15 Minutes
Initial Setting Time (25°C)	30–35 Minutes
Full Cure Time	24 Hours
Shore D Hardness	70–80
Lap Shear Strength (After 24 Hours @ 25°C)	40–70 kg/cm²
Recommended Operating Temperature	–20°C to +90°C

TYPICAL PERFORMANCE

Excellent transparency after curing. High bond strength for structural and general-purpose bonding. Good resistance to moisture and commonly encountered chemicals. Suitable for indoor and outdoor repair applications under normal service conditions.

Note: The above values are typical laboratory results and are intended as a technical guide. Actual performance may vary depending on substrate condition, ambient temperature, mixing accuracy, and application method.

APPLICATION PROCEDURE

The following procedure is for best bonding performance, follow the application procedure below:

- Ensure that both bonding surfaces are clean, dry, and properly prepared before applying the adhesive.
- After mixing Part A and Part B, spread a thin and even layer of VEL-BOND onto one or both surfaces using a suitable applicator or spatula.
- Position the components accurately and press them together firmly to achieve complete surface contact.
- Hold or clamp the bonded parts in place until the adhesive develops sufficient initial strength.
- Wipe away any excess adhesive immediately using a suitable solvent before it begins to cure.
- Avoid disturbing the bonded assembly during the curing period.
- Allow the adhesive to cure completely for 24 hours before subjecting the joint to mechanical load or service conditions.

The following performance values represent the expected characteristics of PU FIX under standard laboratory testing conditions.

RESTRICTIONS OF USE

For optimum performance, VEL-BOND is not recommended for the following applications:

- Bonding Polyethylene (PE) and Polypropylene (PP) plastic materials.
- Continuous water immersion or permanently submerged applications.
- Surfaces contaminated with excessive oil, grease, or moisture without proper cleaning.
- Applications exceeding the recommended operating temperature range.

HANDLING, STORAGE, PACKAGING & SAFETY

HANDLING PRECAUTIONS

For safe handling and optimum product performance, observe the following precautions:

- Use appropriate protective gloves and safety eyewear while handling the product.
- Work in a well-ventilated area during mixing and application.
- Avoid direct contact with skin, eyes, and clothing.
- Do not ingest the product or inhale vapours for prolonged periods.
- Wash hands thoroughly after use.

- Keep the containers tightly closed when not in use.
- Keep the product out of the reach of children.

STORAGE

- Store VEL-BOND in its original, tightly sealed container.
- Keep the product in a cool, clean, and dry location.
- Recommended storage temperature: 2°C to 40°C.
- Protect the product from direct sunlight, excessive heat, and moisture.
- Always keep containers tightly closed after use to prevent contamination.

SHELF LIFE

24 Months from the date of manufacture when stored in unopened original packaging under recommended storage conditions.

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