

# Industrial Structural Adhesive Bonding System

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**Description:** A 100 % reactive, toughened structural acrylic adhesive formulated for bonding PVC trimboard, wood, urethane, metals, aluminum, fiberglass, masonry, rigid plastics, and all other synthetic wood products.

**Intended Use:** Used to fill nail holes, fill gaps and joints, laminate PVC trimboard, bond aluminum cleats to PVC window/door trim moldings and fill voids in all other synthetic wood products.

**Product features:**  
 Fills nail holes  
 Bonds PVC board  
 Surface can be easily sanded to shape  
 Can be used to laminate PVC board  
 Non-sag formula  
 Color - white

**Limitations:** None

**Typical Physical Properties:** *Technical data should be considered representative or typical only and should not be used for specification purposes.*

**Cured 7 days @ 75°F**

% Solids by Volume	100
Adhesive Tensile Shear (AL/AL)	2,354 psi
Adhesive Tensile Shear (CPVC)	586 psi (substrate failure)
Adhesive Tensile Shear (PVC)	1,300 psi (substrate failure)
Coverage per Cartridge	1,243 in. @ 1/8" bead
Gap Fill	0.375 in.
Impact Resistance	20 ft. lb / in.
Shore Hardness	75 Shore D
Tensile Elongation	5 - 15 %
T Peel	15 - 20 pli

**TESTS CONDUCTED**

Adhesive Tensile Shear ASTM D 1002  
 T-Peel Strength ASTM D 1876  
 Cured Hardness Shore D ASTM D 2240  
 Impact Resistance ASTM D 950

**Uncured**

Color	White
Flashpoint	51° F
Full Cure	24 hrs.
Functional Cure	2 hrs. @ 72° F
Mix Ratio by Volume	1:1
Mixed Density	8.8 lbs. / gal.
Mixed Viscosity	30,000 cps
Service Temperature	-40° F to 160° F
Tack Free Time	18 - 20 min. @ 72° F
Viscosity	Adhesive: 18,000 cps; Activator: 45,000 cps
Weight	Adhesive 9.5 lbs./gal.; Activator: 8.10 lbs./gal.
Working Time	5 - 8 min. @ 72° F

**Surface Preparation:** Clean surface by solvent-wiping any deposits of heavy grease, oil, dirt, or other contaminants. Surface can also be cleaned with industrial cleaning equipment such as vapor phase degreasers or hot aqueous baths. If working with metal, abrade or roughen the surface to significantly increase the microscopic bond area and optimize the bond strength.

**Mixing Instructions:** ---- Proper homogenous mixing of resin and hardener is essential for the curing and development of stated strengths. ----

25 ML TUBE

1. Squeeze material into a small container the size of an ashtray.
2. Using mixing stick included on tube handle, vigorously mix components for one (1) minute.
3. Immediately apply to substrate.

50 ML CARTRIDGES / 400 ML CARTRIDGES / 1500 ML CARTRIDGES

1. Attach cartridge to (50 ML) Chem-set™ Pak 50 Gun / (400 ML) Chem-set™ VR400 XSP / (1500 ML) Chem-set™ Pneumatic Gun

2. Open tip.
3. Burp cartridge by squeezing out some material until both sides are uniform (ensures no air bubbles are present during mixing).
4. Attach mix nozzle to end of cartridge.
5. Apply to substrate.

**Application Instructions:**

1. Unscrew retaining nut top of cartridge. Remove nose plug.
  2. Insert TrimGrip™ adhesive cartridge in gun. \*(See selection guide)
  3. Dispense until both part A (white) and part B (tan) flow freely
  4. Screw mix nozzle on cartridge. Tip can be trimmed to increase flow of mixed adhesive.
  5. Dispense TrimGrip™ adhesive through mix nozzle. Be certain mixed TrimGrip™ adhesive flows streak-free and white before applying to work surface.
- If material flow slows or stops, replace the mix nozzle.
  - If the cartridge is not used for 8 minutes (at 72°F), replace the nozzle.
  - If the flow of TrimGrip™ adhesive is continuous, the nozzle can last for extended periods of time.
  - Working times and cure times are affected by the temperature of the adhesive.
  - Adhesive temperatures below 72°F extend the work, tack-free and functional cure time.
  - Adhesive temperatures above 72°F shorten the work, tack-free and functional cure time.

**APPLICATIONS**

- Bonding - TrimGrip™ adhesive is designed to bond PVC board. Wood, fiberglass, vinyl, aluminum, stainless steel, masonry and other surfaces can also be bonded. (Do not apply too much pressure when clamping)
- Gap Filling - TrimGrip™ adhesive is designed to fill gaps. A gap larger than 3/8" can be built up with multiple applications.
- Nail Holes - Over fill nail hole. After 20 minutes (72°F) sand or shave flush with surface. (Stanley® SurForm® Pocket Plane tool can be used)
- Painting - TrimGrip™ can be painted with latex, acrylic or enamel paints.

To store opened or partially used cartridges, remove nozzle, clean excess adhesive, re-install nose plug. Shelf Life is based on storage between 55°F and 75°F. Prolonged exposure/storage above 90°F reduces product reactivity and stability. Shelf life can be extended when stored between 45-55°F. **DO NOT FREEZE.**

**STORAGE AND SHELF LIFE**

Shelf life of TrimGrip adhesive (Part A) is 1 year. Shelf life of activator (Part B), including cartridges that contain activators, is 1 year. Shelf life is based on continuous storage between 54°F (12°C) and 74°F (23°C). Long term exposure above 74°F (23°C) will reduce the shelf life of these materials. Prolonged exposure of activators, including cartridges that contain activators, above 98°F (37°C) quickly diminishes the reactivity of the product and should be avoided. These products should never be frozen.

*Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75°F*

**Chemical Resistance:**

Ammonia	Fair
Cutting Oil	Excellent
Glycols/Antifreeze	Excellent
Hydrochloric 10%	Very good
Motor Oil	Excellent
Sodium Hydroxide 10%	Excellent

**Precautions:**

Please refer to the appropriate material safety data sheet (MSDS) prior to using this product.

**For technical assistance, please call 1-800-220-1966**

**FOR INDUSTRIAL USE ONLY**

**Warranty:**

Chemical Concepts, Inc., will replace any material found to be defective. Because the storage, handling and application

of this material is beyond our control, we can accept no liability for the results obtained.

**Disclaimer:**

All information on this data sheet is based on laboratory testing and is not intended for design purposes. Chemical Concepts makes no representations or warranties of any kind concerning this data.