

SCProbond™ HV-1

High Viscosity Epoxy Ceramic Adhesive

Description: SCProbond™ HV-1 High Viscosity Epoxy Adhesive is a high-strength trowelable adhesive compound designed for installing SCProbond material handling components. This two-part toughened material is suitable for horizontal, vertical, and overhead applications.

Ordering Information: Kit Size: 22LB Kits (2- 1 Gallon Pails)
Bulk Kit (2- 55 Gallon Drums)

Product: Easy to mix

Advantages: Excellent non-sagging adhesive
Color: Off White Paste
Excellent adhesion to metal, ceramic and concrete
Easy to use 1:1 Formula
100% solids, VOC/BGE/Solvent Free

Application: Maximum Service Temp 200°F

Guidelines: Working Time 40-50 Minutes
Functional Cure 8 Hours @70°F
Mix Ratio 1:1 parts by volume (PBV)

Coverage/lb: 80 sq. in./lb. @ 1/4" Thick

Physical Properties:		<u>Tests Conducted</u>
Tensile Shear Strength	2,250 psi	ASTM D 1002
Flexural Strength	9,400 psi	ASTM D 790
Compressive Strength	9,800 psi	ASTM D 695
Hardness, Shore D	85	ASTM D 2240

Surface Preparation: The surface to be coated must be free of all rust, scale, dirt, dust, grease, oil, release agents, or other contaminants. The more thorough the degree of surface preparation the better the applied epoxy will perform. If at all possible, it is recommended that the surface be grit blasted to a near white metal finish prior to pouring the material.

Measuring: **Partial kit usage is not recommended.** If you need less than the amount of SCProbond™ HV-1 Epoxy Adhesive in the smallest kit, accurately weigh or measure by volume the resin and hardener following the mixing ratios shown under Application Guidelines.

Do not attempt to "eyeball" the mixture needed.



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Mixing Instructions: Empty all the hardener into the resin and thoroughly mix with a trowel or heavy-duty, slow-speed drill and mixing paddle until uniform in color, usually 2 to 4 minutes. Remember, incomplete mixing will result in incomplete curing, soft spots, and poor performance. If the kit becomes colder than 60°F, preheat the cans in hot tap water to a maximum of 90°F. Excessive heat will reduce the work life. **Do not heat cans with torch.**

Application Instructions: Working time and cure depends on temperature and mass. The higher the temperature, the faster the cure. The larger the mass of material the faster the cure.

Apply SCProbond HV-1 Epoxy Adhesive with either a smooth or notched trowel.

TO APPLY

1. Apply HV-1 Epoxy Adhesive to base
2. Press tile from its center outward to force out excess adhesive and eliminate air entrapment
3. Pound tile with a rubber hammer to ensure a close fit
4. Scrape excess adhesive from tile seams

Store epoxy at room temperature.

Curing Procedures: HV-1 Epoxy Adhesive has a very high green strength, which means that tiles will not slip during the cure process unless excessive adhesive has been applied or air has become entrapped under the tile. Applying epoxy at temperatures below 70°F lengthens functional cure and pot life times. Store at 60-80°F.

SAFETY PRECAUTIONS

Avoid breathing of vapors. Forced local exhaust is recommended to effectively minimize exposure. NIOSH approved, organic vapor respirators and forced exhaust are recommended in confined areas, or when conditions (such as heated polymers, sanding) may cause high vapor concentrations. **DO NOT WELD, BURN, OR TORCH ON OR NEAR ANY EPOXY MATERIAL. HAZARDOUS VAPOR IS RELEASED WHEN AN EPOXY IS BURNED.**

Avoid skin or eye contact. Wash skin with soap and water if contact occurs. If eye contact occurs flush with water for 15 minutes and obtain medical attention. Read and understand all cautions on can labels and safety data sheets before using this material.

WARRANTY AND DISCLAIMER

Silicon Carbide Products, Inc. gives no warranty, express or implied, and all products are sold upon condition that purchasers will make their own tests to determine the quality and suitability of the product. Silicon Carbide Products, Inc. shall be in no way responsible for the improper use and service of the product. The information given in this publication is considered to be accurate and reliable and is provided as a service only. Physical properties shown are typical. Actual properties are dependent on curing conditions and degree of cure. Any information or suggestions given are without warranty of any kind and purchasers are solely responsible for any loss arising from the use of such information or suggestions. No information or suggestions given by us shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. **TB#4046 (07/25/17)**



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