

SCProbond™ A/CRC

Abrasion and Corrosion Resistant Compound

Description: SCProbond™ A/CRC is a trowelable, silicon carbide filled, abrasion and corrosion resistant wear compound designed for thick application on badly worn areas or known severe wear locations. The unique formula of A/CRC forms a tough high performance barrier that resists sliding abrasion and chemical attack. A/CRC adheres easily to most metals and cast silicon carbide substrates found in harsh processing environments

Ordering Information: SCProbond A/CRC 3 lb. Kit
SCProbond A/CRC 22.5 lb. Kit

Product Advantages: Smooth non-sag consistency
Spreads easily, filling holes, gouges and worn areas in one application
Can be applied vertically and overhead at 1/2" with no sag
Excellent corrosion resistance to a wide range of chemicals
Excellent sliding abrasion wear protection

Application Guidelines:

Maximum Service Temp	200°F
Working Time	15 minutes
Functional Cure	7 Hours @ 72°F-77°F
Mix Ratio	2/1 By Volume

*The working time varies according to the temperature of the air, the material, and the surface to which it is applied

Coverage: Coverage per pound is 30 in (193cm) at 0.5 in (1.27cm) thickness.

Physical Properties:

Appearance:	Soft Paste	
High Velocity Particle Wear		
Resistance (Abrasion Loss) :	1.91 cm ³	ASTM C 704
Hardness Shore Scale:	91D	ASTM D 2240
Compressive Strength:	11,900 psi	ASTM D 695
Flexural Strength:	8,100 psi	ASTM D 790
Lap Shear:	2,550 psi	ASTM D 1002



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Chemical Resistance: Sodium Hydroxide
Ammonium Hydroxide

Sulfuric Acid < 70%
Nitric Acid < 10%

Surface Preparation: The surface to be coated must be free of all rust, scale, dirt, dust, grease, oil, release agents, or other contaminants. Preheat the surface to 100°F to drive off any moisture. For smooth surfaces or where vibration is a concern, tack weld an open mesh screen or expanded metal approximately 1/16 to 1/8 inch above the surface. Chip off weld slag.

Measuring: **Partial kit usage is not recommended.**

If you need less than the amount of A/CRC accurately weigh or measure by volume the resin and hardener following the mixing ratios shown under typical characteristics.

Do not attempt to "eyeball" the mixture needed

Mixing: Empty all the hardener into the resin and thoroughly mix with heavy-duty, slow-speed drill and mixing paddle until uniform in color, usually 5 to 7 minutes. Remember, incomplete mixing will result in incomplete curing, soft spots, and poor performance. If the kit becomes colder than 60°F, preheat the pails in front of a floor heater to a maximum of 90°F. Excessive heat will reduce the work life.

Do not heat pails with torch.

Application: Apply a thin, wet coat to create tack. Repeat applications, building the tack coat to the desired thickness. If a screen or expanded metal is used for reinforcement, push a thick layer through the screen at one end. Spread the A/CRC to the other end, making sure the surface below is covered.

Cure for a minimum of 7 hours at 77°F/ 25°C before using the equipment or subjecting A/CRC to media.

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# (07/25/17)**



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