PC-3®

Laboratory Table Top Cement

www.smooth-on.com

PRODUCT OVERVIEW

Smooth-On **PC-3®** Laboratory Table Top Cement is a two-component, black epoxy resin compound designed to join, bond and caulk sections of laboratory counters and tables. This epoxy resin cement is heavily filled and will adhere to vertical surfaces without sagging. It cures at room temperature with extremely low shrinkage. **PC-3®** contains no volatile organic compounds (VOC's) or solvents. It is chemically stable and bonds strongly to natural and artificial stones, most metals, glass, wood and to thermosetting resins such as polyester, phenolic and epoxy. **PC-3®** is available in pint units (2.5 lbs.) or quart units (5.0 lbs.) and is sold in case quantities only. A case of pints contains six units and a case of quarts contains 3 units.

TECHNICAL OVERVIEW

Mix Ratio: 1A : 1B by weight or volume

Mixed Viscosity: Paste

Specific Gravity/Volume: 1.4 / 20 cu. in./lb.

Working Life: 20 minutes (100 g at 73°F/23°C)

Handling time: 2 hours (0.010 in/0.0254 cm film)

Color: Black

Barcol 935 Hardness: 75 (after 24 hours)

Tensile Strength, psi: 3,000 (ASTM D638-84)

Flexural Strength, psi: 5,000 (ASTM D790-87)

Linear Shrinkage: .003 in/in

Compressive Yield, psi: 5,000 (ASTM D695-84)

Tensile Shear Adhesion to CR Steel, psi: 3,000 (ASTM D1002-72)

* All values measured after 7 days at 73°F/23°C

PROCESSING RECOMMENDATIONS

PREPARATION...*Safety* -

Use in a properly ventilated area ("room size" ventilation). Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk.

Store and use material at room temperature (73°F/23°C). This product has a limited shelf life and should be used as soon as possible.

Any surface to which the PC-3® will be applied should also be at least 73°F/23°C. Sand surface and wipe clean with fast drying solvent (such as acetone) prior to applying PC-3®. Surface must be clean, dry, and free of all contaminants such as oil, grease, water, dust, etc. Mask adjacent areas with masking tape, then strip tape off as soon as installation is completed. Remove excess or unwanted cement with solvent before it sets.

Because no two applications are quite the same, a small test application to determine suitability for your project is recommended if performance of this material is in question.

MEASURING & MIXING...

***Measuring & Mixing* -** It is important that Parts A & B be mixed accurately in equal amounts. Excess amounts of either Part A or B will cause improper curing of the material. After dispensing equal amounts of Parts A & B, mix thoroughly for 5 minutes, making absolutely sure that you scrape the sides and bottom of the mixing container several times. If you notice streaks in the mixed material, it is not mixed thoroughly enough. Normal cure time is 24 hours.

Safety First!

The Material Safety Data Sheet (MSDS) for this or any Smooth-On product should be read prior to use and is available upon request from Smooth-On. All Smooth-On products are safe to use if directions are read and followed carefully. **Keep Out of Reach of Children**

***BE CAREFUL* -** PC-3® Part A is irritating to the eyes and skin. Avoid prolonged or repeated skin contact to prevent possible sensitization. Use only with adequate ventilation. If contaminated, flush eyes with water for 15 minutes and seek medical attention. Remove from skin with waterless hand cleaner, then soap and water. Read MSDS before using. PC-3® Part B causes burns to the eyes, may burn the skin and cause sensitization. Vapors irritate the respiratory tract. If contaminated, flush eyes with water for 15 minutes and seek medical attention. Remove from skin with soap and water. Use only with adequate ventilation. During the dismantling of a laboratory counter installation, care must be taken to avoid the inhalation of any dust from the epoxy cement or the counter top material itself. The method for removal is to heat up the PC-3® cement to about 130° - 150° F (hot water temperature) using flameless heat gun, then cutting away the joints with a putty knife or scraper blade. The epoxy is very "rubbery" when hot and cuts easily. If any sanding or sawing is performed, proper respiratory protection is mandatory.

***IMPORTANT* -** The information contained in this bulletin is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained from the use thereof, or that any such use will not infringe upon a patent. User shall determine the suitability of the product for the intended application and assume all risk and liability whatsoever in connection therewith.

Call Us Anytime With Questions About Your Application.

Toll-free: **(800) 381-1733** Fax: **(610) 252-6200**

The new www.smooth-on.com is loaded with information about mold making, casting and more.