

PCS-571 POLYCOTE ACRYLIC POLYURETHANE

DESCRIPTION: A unique acrylic polyurethane based on an aliphatic urethane prepolymer. **Polycote** can be applied as received with both conventional and airless spray equipment as well as by brush or roller.

VOC as supplied: White--3.25 lbs./gallon; Clear and Black--3.99 lbs./gallon. **When reduced:** White--3.75 lbs./gal; Clear and Black--4.38 lbs./gallon. (15% by volume with R77-132)

PCS-571 is extremely stable for all but the most severe industrial environments. **Polycote** has outstanding color and gloss retention along with exceptional chemical resistance when compared to other acrylic polyurethanes of this type.

USES: Where both color and gloss stability, plus good chemical and abrasion resistance are required. Suitable for use in moderately severe chemical environments; where the ultimate chemical resistance is necessary, use Permaglas **PCS-506**. Principal applications are transportation vehicles, building fascia, storage tanks, highway signs, and structural steel.

SURFACE PREPARATION: Generally **Polycote** may be applied to epoxy, chlorinated rubber, and most universal primers. Consult **Permite** for specific recommendations in case of doubt.

MIXING: Four volumes of **Base** and one volume of **Hardener** should be mixed until a uniform color is achieved. No waiting or induction period is necessary. **Polycote** may be applied immediately after mixing.

Note: Polyurethanes are sensitive to moisture. Avoid contaminating with condensate when mixing with air-driven mixers. Re-close partially full containers tightly.

COLOR: Standard colors. Special colors available on request.

VOLUME SOLIDS: 53% \pm 2% for white; 42% \pm 2% for clear and black.

VOC: \geq 3.99 lbs/gallon (\geq 480 gms/L)

GLOSS: 95° \pm 5°

THEORETICAL COVERAGE: 850 sq. ft./gallon at 1 mil DFT for white; 675 sq. ft./gallon at 1 mil DFT for clear and black

NUMBER OF COMPONENTS: Two

MIXING RATIO: Four volumes of **Base** to one volume of **Hardener**

POT LIFE: 1 ½ - 2 hours at 77° F to double in viscosity. 4 - 6 hours at 77° to gel time

APPLICATION: Conventional or airless spray, roll, or brush.

RECOMMENDED FILM THICKNESS: 2 - 3 mils DFT

APPLICATION TEMPERATURE: 45° F to 110° F

DRY TIME: Dust free, 30 minutes. Tack free, 6 hours. Hard, overnight (12-16 hours). Full cure, 7 days.

PACKAGING: 5-gallon kits; 1.25-gallon kits are special order

SHELF LIFE: Minimum of 12 months in unopened containers

THINNING: Not required for brush and roller application. For airless and conventional spray, thinning is generally not required. However, the use of small amounts of **Reducer R77-132** will help flow and leveling. We recommend for automotive application that 10 - 15% **Reducer R77-132** be used to control appearance and film build.

APPLICATION: Flush equipment thoroughly with MEK before use. **Air support spray:** Use Binks #62 gun, #63 tip and 66PF cap, or equivalent. Pot pressure, 10-15 psi and 25-35 psi atomizing pressure. **Airless spray:** Fluid pressure approximately 1200 psi, .013-.015 inch orifice. May be brushed or rolled; however, spray application will give best results. Do not apply when the temperature is 45° F and falling. High surface temperatures can cause solvent “popping.”

DRY TIME: **Polycote** will dry to a dust free condition in 30 minutes and set to touch in 1 hour. It becomes completely tack free in 6 hours; however depending on temperatures and humidity, it may be possible to handle and move parts as early as 3 hours dry time. It will cure hard overnight (12-16 hours). Full cure, 7 days.

CLEAN UP: Reducer **R76, R77-132**, or MEK may be used for clean-up only. Do not allow material to set up. Once set, it is nearly impossible to clean equipment.

CAUTIONS: Flammable. This product contains solvents. Keep away from heat and open flame. Keep containers closed. Use with adequate ventilation. Avoid prolonged breathing of vapors. Avoid prolonged or repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire, explosions or damage to health: (1) circulate adequate fresh air continuously during application and drying; (2) use fresh air hoods and explosion-proof equipment; (3) prohibit all flames, sparks, welding, and smoking.

If swallowed, do not induce vomiting. Call a physician immediately. For eye contact, flush with lots of water. In case of skin contact, wash thoroughly with soap and water.

See material safety data sheets for full precautions prior to use.

PCS-571 is intended for INDUSTRIAL USE ONLY.