



SP-205 A/B
80 SHORE D SPRAY APPLIED POLYURETHANE



SP-205 A/B is a two component rigid polyurethane material designed to provide high strength, high impact, and good heat resistance for the fabrication of structural parts, composite type structures, and for coatings that serve many purposes.

SP-205 A/B can be sprayed with conventional plural component high pressure spray equipment or with BJB's CPE-25 and CPE-40 pneumatic hand held spray guns.

- Used for rapid production of parts, composite structures, and molds
Provides excellent surface finishes built on polyurethane rigid foam and styrofoam
Superior adhesion to a wide variety of substrates, most notably rigid foams and wood
Excellent impact resistance coupled with high flexural strength
Provides very fine detail reproduction
Convenient 1:1 by volume mix ratio

- Movie Special Effects Props
Art Industry
Prototype Models
Automotive Industry
Theming
Concrete Molds

Table with 3 columns: PHYSICAL PROPERTIES, TEST METHOD, and ELEVATED TEMPERATURE CURE*. Rows include Hardness, Density, Tensile Strength, etc.

*Note: Reported physical properties are based on test specimens cured 1-3 hours at room temperature then 16 hours at 180°F (82°C).

Table with 3 columns: HANDLING PROPERTIES, Part A, and Part B. Rows include Mix Ratio, Specific Gravity, Viscosity, etc.

Properties above are typical and not for specifications.

CURE SCHEDULE:

Most of the physical properties can be achieved in 5-7 days at 77°F (25°C). You may use your own post-cure schedule but the physical properties may vary from BJB’s cure schedule of 1-3 hours at 77°F (25°C) followed by 16 hours at 180 °F (82°C). Do not exceed curing temperatures of 200°F (93°C). Support of the part may be required to prevent part deformation during the heat curing process.

STORAGE:

Store at ambient temperatures, 65-80°F (18-27°C). Unopened containers will have a shelf life of 6 months from date of shipment when properly stored at recommended temperatures. Purge opened containers with dry nitrogen before re-sealing.

PACKAGING	Part A	Part B	Cubic Inches per Kit
5-Gallon Kits	40 lbs.	36 lbs.	1,883

SAFETY PRECAUTIONS:

Avoid contact with skin using protective gloves and protective clothing. Repeated or prolonged contact on the skin may cause an allergic reaction. Eye protection is extremely important. Always use approved safety glasses or goggles when handling this product. Use in well-ventilated areas. Avoid breathing vapors. If exposures cannot be kept at a minimum, a respirator may be necessary in addition to ventilation. The use of a positive pressure air supplied respirator is mandatory when airborne isocyanate concentrations are “not known” or exceeds OSHA’S TWA of 0.005 ppm. Air purifying, organic cartridge type respirators are not generally recommended to use when handling this material without implementation of an end of life service program. Observe OSHA regulations for respirator use (29 CFR 1910.134). Employers are responsible for selecting the correct respirator for each situation.

IF CONTACT OCCURS:

- Skin:** Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. It is *not* recommended to remove resin from skin with solvents. Solvents only increase contact and dry skin. Seek qualified medical attention if allergic reactions occur.
- Eyes:** Immediately flush with water for at least 15 minutes. Call a physician.
- Ingestion:** If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by emergency personnel. Never give anything by mouth to an unconscious person.

⚠WARNING: This product can expose you to chemicals including 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich and Titanium Dioxide (TiO2) which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

NOTE:

Refer to the Safety Data Sheet before using this product. For processing tips and guides, please visit: learn.bjbmaterals.com to discover additional information.

NON-WARRANTY "Except for a warranty that materials substantially comply with the data presented in Manufacturer's latest bulletin describing the product (the basis for this substantial compliance is to be determined by the standard quality control tests generally performed by Manufacturer), all materials are sold "AS IS" and without any warranty express or implied as to merchantability, fitness for a particular purpose, patent, trademark or copyright infringement, or as to any other matter. In no event shall Manufacturer's liability for damages exceed Manufacturer's sale price of the particular quantity with respect to which damages are claimed."