

SC-94 FLAT SINGLE COMPONENT ALIPHATIC WATER-BASED COATING



SC-94 FLAT is a water-based, aliphatic polyurethane coating designed to provide a final finish or paintable surface for various flexible polyurethane foams, elastomers, and latex products. It can also be used as an in-mold coating for casting or brushing polyurethane products behind. Also available in a semi-gloss version.

- Provides a uniform flat finish
- Excellent color retention
- Clear base is easy to tint or pigment
- High elongation and tear resistance

PHYSICAL PROPERTIES	RESULTS
Specific Gravity @ 77°F (25°C)	1.05
Color/Appearance	White liquid / Dries flat colorless
Tensile Strength (psi)	TBD
Tensile Modulus (psi)	TBD
Elongation (%)	>1,750
Solids (%)	36
VOC Content (g/l)	4.2
Viscosity (cps) 77°F (25°C)	150

APPLICATION INFORMATION:

The recommended method of applying SC-94 FLAT is by spraying with conventional spray gun. Brush coats may be used but spraying is more uniform. The recommended spray pressures with a conventional spray gun will normally range between 15 to 25 psi. When pigmented with water based pigments, 2 to 3 coats should be applied to achieve an opaque film. Surfaces should be clean and dry. A liquid dish soap and water solution is an effective surface cleaner. A primer like BJB's TC-89 will greatly increase adhesion to surface. Reference the TC-89 Data Sheet for application procedure.

1. Apply a light mist coat – wait 2-3 minutes*.
2. Re-coat with a heavier wet coat – wait 7-10 minutes*.
3. Re-coat with a heavier wet coat – wait 20-30 minutes* before casting behind (longer if temperatures are cooler).

Brush coat Application: Applying multiple thin coats will reduce stroke marks and dry faster than thick coats.

1. Apply thin coats to surface avoiding drips or runs- wait 12-15 minutes between coats*

* Times determined at 77°F and 50% humidity

In-Mold coating: Platinum or tin based silicone molds may not require the use of release agents. Plastic, metal, and plaster molds will require the use of release agents and plaster will require a sealer before the use of a release agent.

APPLICATION INFORMATION (continued):

BJB recommends the following release agents that are available from our stock:

1. PartAll paste wax – Apply a light coating and buff to avoid fisheye.
2. BJB’s Challenge 95 – Apply a light uniform coat, wipe or buff out to avoid streaking.
3. Stoner’s E302 Rocket Release – Spray three light uniform coats. By maintaining a uniform coating, no fish eyes or streaks will be transferred to the SC-94 FLAT coating.

PIGMENTATION:

The SC-94 FLAT can be pigmented with water based pigment dispersions. Typically 2-3% by weight loading achieves an opaque, uniform color.

CLEAN UP:

Warm water and liquid dish soap can be an effective solution for cleaning up if SC-94 FLAT is still in liquid form. Paint thinner can be used for cleaning spray gun parts or partially cured SC-94 FLAT. A spray gun cleaning brush should be used to effectively remove residual coating material.

STORAGE:

Store in a cool dry place. Material should be kept above 50°F (10°C). DO NOT ALLOW TO FREEZE. Unopened containers will have a shelf life of 12 months from the date of shipment when properly stored at room temperatures. Purge opened containers with dry nitrogen before re-sealing.

PACKAGING	
Quart	2 lbs.
Gallon	8 lbs.
5-Gallons	40 lbs.

SAFETY PRECAUTIONS:

Use in a well-ventilated area. 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.

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 medical personnel. Never give anything by mouth to an unconscious person.

Refer to the Material Safety Data Sheet before using this product.



SC-94 FLAT SDS

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."