



SC-89 STRETCH PAINT

SINGLE COMPONENT URETHANE COATING MATERIAL

DESCRIPTION:

SC-89 can be used as a stretch coating for fabrics, latex, foam, rubber, and polyurethane elastomers such as SkinFlex. The SC-89 Series is a fully reacted, non-yellowing, elastomeric urethane coating which dries by solvent evaporation. SC-89 Series offers the following outstanding characteristics:

- Non-yellowing
- High tensile strength at very high elongation
- Excellent impact resistance
- 700% elongation
- Outstanding abrasion resistance
- Solvent resistant
- Exceptional gloss and color retention
- Low temperature flexibility
- Available in Clear Gloss (SC-89-5), Clear Flat (SC-89-6), and Clear Super Flat (SC-89-40)

PHYSICAL PROPERTIES:

Density, (g/cc)	0.91
Tensile Strength, (psi)	6700
Tensile Modulus, (psi) @ 100%	560
Tensile Modulus, (psi) @ 300%	1300
Elongation, (%).....	700
Tear Strength, (pli) Die C.....	500
Tear Strength, (pli) split.....	300
Acid Resistance:	
5% hydrochloric	no effect
5% acidic	slight swelling and color change
5% phosphoric.....	no effect

HANDLING PROPERTIES:

Viscosity (cps).....	1850
Dry Time (3 mil wet film on glass):	
@ 77°F (25°C)	3 minutes
@ 150°F (66°C)	1 minute

Note: Viscosity and dry time will vary with use of thinner

PROCEDURES AND MATERIALS:

1. Air brushing is ideal, particularly for small areas or for detailed applications.
2. If a spray gun is used, very low air pressure is a must; otherwise a cobweb effect takes place. Air pressure (in accordance to how much thinner is used) may be as low as 18 to 20 psi, and generally not more than 30 psi.

3. Brush coating is often used. Again, thinning may vary how fast good coverage can be achieved. It is often better to apply thin coats rather than going too thick. The thin coat method also reduces brush marks.
4. Wipe areas to be painted with 89 thinner to clean any mold releases or other contaminants from the surface. Do not allow the thinner to attack the urethane by leaving standing puddles of thinner or using too heavy of a concentration. Often a detergent soap and water solution may be preferred for cleaning if the detail of the urethane is lost by using solvents.
5. Apply TC-89 primer to the areas that will be painted. Apply and allow to dry or become tack-free; approximately 45 to 60 minutes. Spraying or air brushing offers the best results.
6. Color the SC-89 coating with the desired pigments. Very small amounts of pigments should be added until the appropriate color is reached.
7. Thin with SC-89 Thinner. Thinner amounts can vary. For spraying or air brushing, generally use 2-1/2 to 3 parts thinner to one part SC-89 paint. For brushing, a one part thinner to one part SC-89 paint is generally preferred.
8. If SC-89 is being used as a barrier coat in the mold, allow a minimum of 60 minutes in shallow configurations and up to two hours in deeper areas for the SC-89 to dry before applying other materials behind it.

The procedures and materials may vary depending on the substrate of the application intended. Please request technical assistance when questions arise.

PIGMENTATION:

SC-89 clear base systems can be colored with BJB's 6000 Series pigments. Very small amounts of the pigments are needed for coloration.

STORAGE:

Store in a cool dry place. Unopened containers will have a shelf life of 12 months from date of shipment when properly stored at room temperatures. Purge opened containers with dry nitrogen before re-sealing.

PACKAGING:

5-Gallon Pail..... 36 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.