

Ecoflex Rubber – Technical & Safety Data Sheet

Product Details

- Brand: Smooth-On
- Product Name: Ecoflex Rubber
- Type: Platinum-Cure Silicone Rubber
- Components: Part A + Part B
- Color: Translucent / Flesh tone
- Shore Hardness: 00-10 to 00-50 depending on the variant
- Curing Time: 2 to 4 Hours (varies by type and temperature)
- Mix Ratio: 1:1 by weight or volume
- Packaging: Commonly available in 1 lb, 2 lb, and larger kits
- Form: Liquid
- Applications: Prosthetic, special FX, soft molds, wearable props, and cushioning pads
- Purity: 99%
- Grade Standard: Medical and Industrial Grade

Key Features

- Extremely soft and flexible silicone rubber
- Skin-safe (certified for medical applications in some variants)
- Excellent elongation and tear strength
- High detail reproduction
- Compatible with silicone pigments
- Fast curing and easy to use
- Long-lasting with proper care

User Instructions

Safety Precautions:

- Always use in a clean, dry, and dust-free environment
- Use gloves and safety glasses during mixing and pouring
- Ensure good ventilation

Preparation:

- Prepare the mold or casting surface by applying mold release if necessary
- Make sure all tools and containers are clean and dry

Mixing:

- Mix equal parts of Part A and Part B by weight or volume
- Stir thoroughly for at least 2–3 minutes until the mixture is uniform

Pouring:

- Pour the mixed silicone slowly into the mold to avoid air bubbles
- Pour from one corner and allow it to flow naturally

Curing:

- Let the silicone cure undisturbed for 2 to 4 hours
- Cure time may vary depending on room temperature and material thickness

Removing & Storage:

- Carefully demold using soft tools to avoid tearing
- Store unused components in tightly sealed containers in a cool, dry place
- Keep away from direct sunlight and moisture