# SC5000-HitSAC Silicone

# **High Temp Super Adhesive Coating**

## **PRODUCT DESCRIPTION**

SC5000 is an optically clear two-part coating with outstanding adhesive properties and resistance to high tempertures, while still maintaining substantial flexibility and transparency. The material is extremely adhesive to metallic, glass, and plastic substrates. It can also be used for electronic components and solar cell panels.

#### **KEY FEATURES**

- High Temp Resistance
- Excellent Flexibility
- Extremely Adhesive
- Visually Transparent

#### PHYSICAL PROPERTIES

Density (after cure): Pot life @ RT: Viscosity (after mixing @25°C): Appearance (post cure): Glass Transition: Storage Modulus: Elongation @ Break: Stress @ Break: Young's Modulus: Shore A: Temp.Stability: 9 Uncured Shelf Life:

12 hr ): ~200 mPa s Transparent/soft 53 °C 123 MPa @25°C 100-120 % 200-500 kPa 640-900 kPa 62 96% mass retained @400°C (1hr) 1 year

1.1 g/ml





The coating will ceramify at T~400°C Storage modulus @ 350°C = 55 MPa

## **CURE PROCEDURE**

SC5000 cures at 80-120 °C. Cure at 80°C for 1 hour, then increase temperature to 120°C. Material becomes tack free after 1 hr with full cure being reached after 4 hours @120°C. Faster curing cycles can be accomplished at 110°C.

\*Fillers can be added to increase viscosity.

#### **RECOMMENDED CURE PROCEDURE :**

- 1) Clean the substrate.
- 2) Mix Part A (resin) to Part B (hardener) at a ratio of 1:1 (by weight).
- 3) Thoroughly stir the mixture.
- 4) Allow solution to rest at room temperature to release any trapped air (degass).
- 5) Apply the resin.
- 6) Follow cure procedure.
- 7) Slowly cool the parts down to room temperature prior to use.

#### WARRANTY

The information contained herein is believed to be accurate and reliable. However, the user is responsible for determining the suitability and use of the final formulations/products. Hybrid Plastics warrants that its products will meet specifications, but not merchantability or fitness for use.

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