



# ICE RSE: RAPID SEAL EPOXY

## TECHNICAL DATA SHEET

### DESCRIPTION

ICE RSE is an epoxy resin adhesive cured at normal temperature and low temperature. It is easy to operate, fast curing, strong adhesion, and can be cured by heating. It is specially used for electronic component potting, metal bonding, electronic product bonding, wood bonding, hard material bonding and mold infusion, as well as other electronic parts insulation, moisture-proof potting, confidential cover and so on.

### TECHNICAL SPECIFICATIONS AND MECHANICAL DATA

<b>COLOR</b>	Clear
<b>MIX RATIO, BY VOLUME</b>	1:1 (RESIN: HARDENER)
<b>MIX RATIO, BY WEIGHT</b>	1:1 (RESIN: HARDENER)
<b>VISCOSITY @ 77°F (25°C)</b>	PART A: 8000-12000 CPS    PART B: 5500-8500 CPS
<b>WORKING TIME @ 77°F (25°C)</b>	10 min
<b>DRY TOUCH</b>	77°F (25°C) × 1H    or    131°F (55°C) × 5min (2g)
<b>IDEAL WORKING TEMPERATURE RANGE</b>	OPTIMAL 77°F (25°C)
<b>RECOMMENDED FULL CURE</b>	1 HOUR
<b>THERMAL CONDUCTIVITY</b>	0.56 W/M.K
<b>ELECTRICITY LOSS</b>	0.42 1KHZ
<b>COMPRESSION STRENGTH</b>	11.4 kg/mm <sup>2</sup>
<b>HARDNESS, SHORE D</b>	82

### IMPORTANT NOTES

- The indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage.
- The indicated viscosity is for clear product only. Any addition of colorant may affect the viscosity.

MIX RATIO  
**1A:1B**

**ICE RSE**  
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## APPLICATION

In a dry, clean container mix 1 part of resin (A) with 1 part of hardener (B). Minimize air formation as much as possible by gently mixing for 1 to 2 minutes with a metal spatula. Stir well along the inner wall of the container and then let it stand for 3-5 minutes before using.

According to the operation time and dosage, adjust the amount to avoid waste. The barrel lid must be sealed after use to avoid product scrapping due to moisture absorption. It is important to note that the pot lifetime will be shortened in a warmer environment and lengthened in a cooler climate. Hence the handling time will reflect the temperature level. Also, the greater the amount of resins to be mixed, the shorter the pot's time will be.

When the relative humidity is greater than 85%, the surface of the cured product easily absorbs moisture in the air to form a white mist. Therefore, when the relative humidity is greater than 85%, it is not suitable for curing at room temperature. It is recommended to use warm curing. If it is to be ground, it needs to be 3 days after it is fully cured.

## CLEANING

Clean all application equipment with acetone. Once the product has hardened, it can only be removed by sanding. It is advisable to clean immediately after use.

## RESTRICTIONS

- ICE RSE should be stored in a dry place between 59 - 70°F (15 - 21°C), out of the sun and out of reach of children.
- Resin and hardener should not be left in an open container.
- Application should be used where humidity is under 60% and temperature is between 59 - 70°F (15 - 21°C)
- Use a de-humidifier if needed. When the relative humidity is greater than 85%, the surface of the cured product easily absorbs moisture in the air and forms a white mist. Therefore, when the relative humidity is greater than 85%, it is not suitable for normal temperature curing.
- ICE RSE should be used within one year of purchase.

## HEALTH AND SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation.

*\*Consult the material safety data sheet for further information.\**

## IMPORTANT NOTICE

All statements, recommendations and technical information contained in this document are accurate to the best knowledge of ICE EPOXY. The data relates only to the specific material designated herein. It may not be valid if used in combination with any other materials. It is the users' responsibility to verify suitability of this information for their own particular use, and to test this product before use. ICE EPOXY assumes no legal responsibility for use upon these data. ICE EPOXY assumes no legal responsibility for any direct, indirect, consequential, economic, or any other damage except to replace the product.