

# Hot and Humid is Not a Problem For IT Plastics and Epoxies, Etc.

## Background

*Ohio-based IT Plastics specializes in providing potting, encapsulation and moldings for electronic assemblies, sensitive circuitry and devices for Original Equipment Manufacturers (OEMs), engineers and design firms. With more than 22 years of expertise and experience, IT Plastics excels at the most challenging projects. They consistently develop new polyurethane applications - and redesign existing ones - to provide customers with efficient, effective products.*

## Challenge

A customer of IT Plastics required potting material that would maintain its properties in a broad range of operating temperatures. The potting system also had to withstand high humidity and be unaffected by moisture at high temperatures for long periods of time.

## Solution

IT Plastics turned to Epoxies, Etc. to help them meet this very specific need. Epoxies, Etc.'s 20-2350 polyurethane withstood rigorous testing by IT's client. The 20-2350 polyurethane performed so well that it even exceeded similar materials used by the client's competitor.

"We searched for a company that had a material, or line of materials, that could maintain properties in a broad range of temperatures and climates," said John Schriener, president of IT Plastics. "We were very happy with the assistance that Epoxies, Etc. provided us in finding a material that met our customer's needs."

"We would definitely recommend Epoxies, Etc. to other companies. They were very helpful, providing guidance when we were selecting the

best material for our client. They have a courteous staff and their products always ship on time. Epoxies, Etc. is great about expediting orders when we're in need of a product in a hurry."

## Future

While this was IT Plastics' first project with Epoxies, Etc., the two companies have gone on to partner several times on other projects.

"Since that project, we have turned to Epoxies, Etc. to provide various materials for new projects," said Schriener. "We really enjoy collaborating with them."



## 20-2350 Polyurethane Potting Compound

IT Plastics uses 20-2350, a flexible polyurethane potting and encapsulating compound. This is an electronic grade polymer engineered to provide insulation, moisture resistance, and flexibility at low temperatures. The flexibility of 20-2350 at low temperatures provides low stress on sensitive components.

**Packaging**  
5 Gallon Pails

**Dispensing Gun**  
Meter Mix & Dispense

**Mix ratio, by weight**  
100:10

**Color**  
Clear

**Hardness, Shore A**  
50

**Viscosity, 25°C, cps**  
1,600

**Glass transition temp.**  
-72°C

**Volume resistivity, ohm-cm**  
6x10<sup>15</sup>

**Operating temp. range, °C**  
-40 to +125

Further information available on our web site;  
[www.epoxies.com](http://www.epoxies.com)

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