

## **Allegheny Coatings – Porosity Sealing Options**

**Porosity sealing is critical for enhancing the performance of many porous substrates such as powdered metal, castings, and plastics. This process is typically applied under vacuum to ensure complete penetration. Allegheny can provide the following porosity sealing services:**

### **High Temperature Inorganic Porosity Sealing**

- **Pamlico 1092 inorganic sealant can withstand temperatures up to 1800 deg. F without bleed out**
- **Ideal for sealing porous substrates prior to:**
  - **Plating requiring Hydrogen Embrittlement Relief Bake**
  - **Heat Treatment, Salt Bath Nitriding, Carbonitriding**
  - **Powder Coating, Ecoating**
  - **Fuel Cell Plate Sealing, maintains electrical conductivity**
  - **Any sealing application where traditional organic resin sealers bleed out (>400 deg. F)**

### **Resin Impregnation Porosity Sealing**

- **Organic resin porosity sealing good for applications up to 400 deg. F**
- **Ideal for sealing porous substrates prior to:**
  - **Plating or coating not requiring bake**
  - **Machining, to reduce tool chatter**
  - **Pressure Sealing to prevent passing of fluid or gases**