

# Adiabatics, Inc.

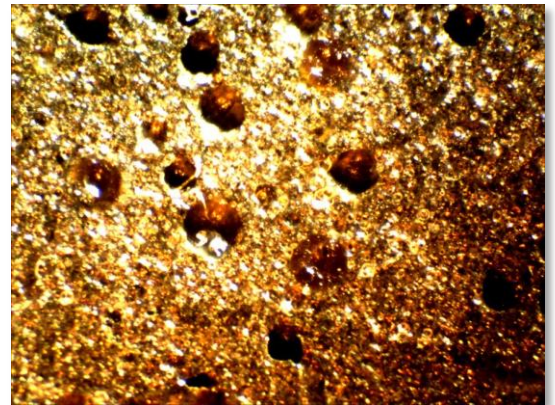
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## AdiaWear Thermo-Seal

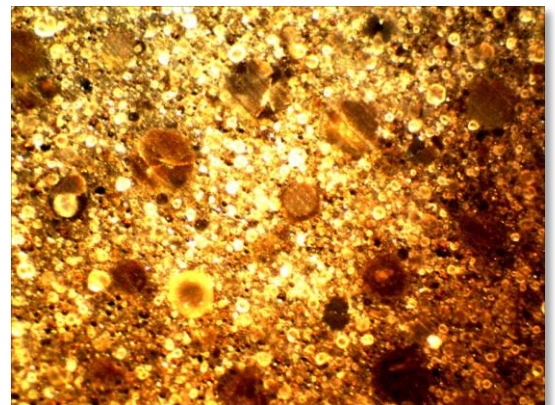
**Description:** AdiaWear Thermo-Seal is a sealer designed to improve coating durability and integrity. This is achieved by filling open porosity and sealing the surface of the sprayed coating. The Thermo-Seal process effectively improves the high temperature corrosion resistance of the base coating while also improving the internal strength of the coating layer through chemical binding of matrix constituents.

### Properties:

- Applicable on a Wide Variety of Substrates
- Improves Coating Layer's Cohesive Bond Strength by 35% - 80%
- Improves Coating Hardness by 50% - 80%
- Maximum Use Temperature: 980°C
- Quick, Low-Cost Application
- Safer, as Coating Structure is Maintained by Metal Substrate
- Variable (Low and High) Range of Thermal Conductivities
- Good Corrosion Resistance to Liquids and Gases
- Dramatically Reduces Open Surface Porosity
- Excellent High and Low Temperature Friction Coefficients



**Figure 1: Surface of AdiaBlock Coating without Thermo-Seal Process. Dark Areas Show Large Amount of Open Porosity**



**Figure 2: Surface of AdiaBlock Coating with Thermo-Seal Process. Dramatic Decrease in Amount of Open Porosity**



**Figure 3: The Top of a Piston Coated with AdiaBlock and Sealed with Thermo-Seal**