

## **ARC-4300**

### **Ablation Resistant Coating**

MWT Material's Ablation Resistant Coating - 4300 (ARC-4300) is an amorphous silica coating, which is applied at ambient temperatures and does not require heat to cure. The novel composition of ARC-43 prevents devitrification normally caused by thermal cycling and exposure to corrosives. ARC-43 is supplied in liquid form and is applied by spraying. Clean up is with water. There are no known carcinogens or corrosives in the liquid or cured product. Application of ARC-43 will enhance the serviceable life of refractory and metals subject to high heat environments and thermal loads.

#### **Typical Applications:**

- Ablation resistant coating for blast pads, burner blocks, and other high heat flux situations
- High temperature corrosion protection for metals and refractory
- High temperature processing equipment
- High temperature incinerator components
- Protection of substrates from oxidation by high heat flux

#### **Features:**

- Meets or exceeds requirements of US-MIL-C-7438F/G
- Thermal shock resistant
- Extremely low thermal conductivity
- NASA approved for use on Thermal Protection Tiles
- Prevents corrosion and carbonization of metal and refractory substrates
- Increases mechanical properties of fibrous refractory

#### **Physical Properties:**

- Non-fibrous, water based solvent, 0% VOC
- Upper temperature limit in excess of 3,600 deg F (1,982 deg C)
- Ablative resistant to temperatures in excess of 2,800 deg F (1,540 deg C) and wind speeds to Mach 4