

## Printing Industry Applications

### Repair damage to plate, blanket and impression cylinders

- Expose damaged area
- Dress sharp edges
- Mask to isolate damaged area
- Fill defects with copper
- Dress copper & polish to blend
- Cap repair area with hard, wear resistant deposit



- In-Situ Repairs
- Reduce Downtime
- Reduce Teardown & Shipping Costs
- Reduce The Need For Post Plating Machining
- Make Permanent Cost Effective Repairs

### Applicable Specifications/Process Approvals AMS 2451

### Typical Deposits Used in Printing Roll Repair

Copper Code 2050  
Cobalt Code 2043  
Chrome Code 2030

### Refer To Application Exchanges

95003, 96008, 98001, 98028

### Refer To Technical Service Bulletins

72005, 68002, and 81001

### Adhesion Of SIFCO Process Deposits

By using ASTM C633-79 Standard Test Method for Adhesion or Cohesive Strength of Flame Sprayed Coatings, SIFCO ASC established values for adhesion of SIFCO Process deposits which indicate that the cohesive strength of the deposit exceeds that of the cement. For example, the minimum tensile strength value established (at the point of cement failure during testing) for Nickel High Speed is 22,803 kPa (11,200psi) on a SAE 4130 steel base material.

Additional qualitative tests, as described in QQN 290 were conducted in which the plated areas were subjected to high stresses and strains. These tests consisted of compressive and tensile bend tests as well as chisel tests into the deposit. The results showed excellent adhesion to the base material.

