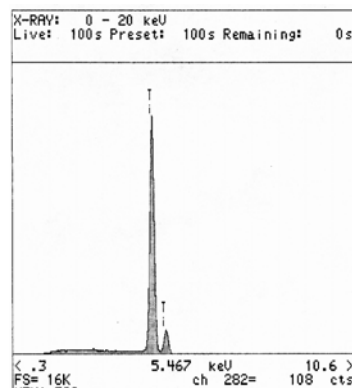
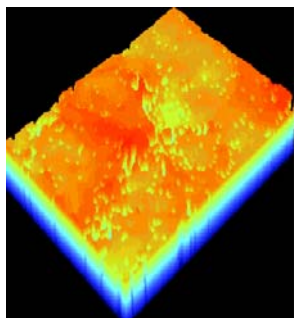
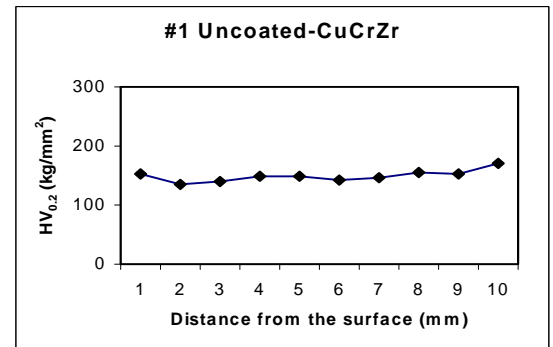
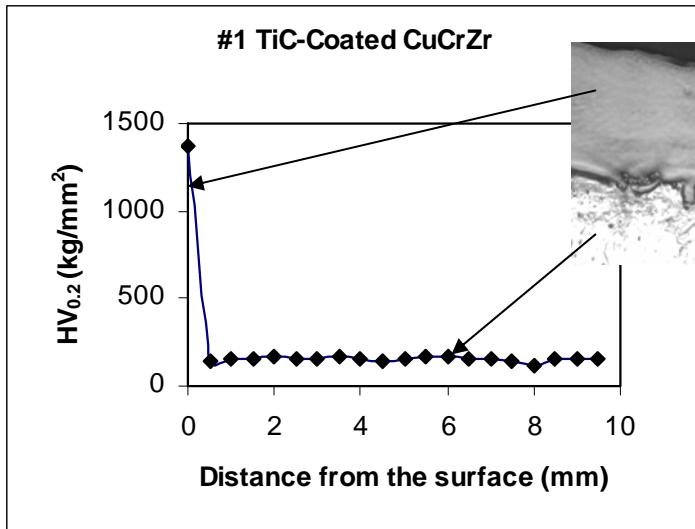




TICAPS™ 'STICK' LESS

The University of Waterloo has independently tested TiCaps™ on coated steels and found that they 'stick' less than the industry standard copper and class 20 copper alloys.

The two charts below, drawn after tests by the University of Toronto, show that Huys' titanium carbide coating is seven (7) times harder than the industry standard, copper chromium zirconium. This high hardness, combined with the much higher melting temperature of titanium carbide than most coatings on steel, tends to create a barrier between the work pieces being welded and the electrodes, thereby reducing sticking and 'brass' formation.



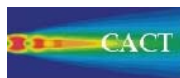
The University of Waterloo has shown that sticking was reduced in spot welding on both CuCrZr and class 20 copper alloy electrodes with the addition of Huys' titanium carbide coating. They found that the **titanium carbide reduced the 'bondability' of molten metal between the electrodes and the work pieces being welded**, and that the TiC coating also reduced the inter-alloying between the electrodes and the work pieces. At left, are TiCaps™ by laser scanning and SEM.

Huys Industries gratefully acknowledges the financial assistance and technical insights of:



National Research Council Canada

Conseil national de recherches Canada



Centre for Advanced Coating Technologies
Centre pour l'Application de Couches

For more information, call 1-416-747-1611 or e-mail us at sales@HuysIndustries.com