

BAC LAUNCHES NEW EASYBOND MKII EQUIPMENT

BAC Corrosion Control Ltd, are pleased to announce the launch of the Easybond MKII (EBM2) Pin Brazing unit.

Following months of development, BAC is officially launching the EBM2 unit at the prestigious NACE Expo in Nashville, USA on 12th March 2007.

The Easybond fully portable pin brazing system produces electrical bonds for connections in pipeline cathodic protection systems and was introduced by BAC in the 1980s. The process is safe, quick and reliable and permits a large number of connections to be made in a relatively short time.

In the pin brazing process, threaded pins to accept a crimped cable lug and a nut is used for ductile or cast iron pipes. For steel pipes, either threaded brazing pins with nuts or a special lug for direct cable brazing is the norm. The portable nature of the equipment means that connections can be made in any weather in almost any location, either above or below ground and, if necessary, overhead.

The EBM2 unit retains the same reliability as the original unit with a capacity of 30 brazes on a single battery charge, with the electro-mechanical functionality housed in a sturdy, heavy duty enclosure.

The new unit boasts features such as charge/braze indicators which tell the operator when to recharge, quick change batteries held in a robust bag with loading strap, and an independent battery charging pack so operators can braze and charge at the same time with an extra battery pack to hand.

BAC continues to offer a wide range of accessories which are all compatible with the new EBM2 unit, including the Reach System for vacuum excavated installations of sacrificial anodes. The new unit has been specifically developed with existing products in mind allowing the use of the existing battery chargers (in-car and mains supply) and existing guns, grinder and earth device as the original Easybond system.



BAC MERGES WITH TRANSFORMER RECTIFIER MANUFACTURER

BAC Corrosion Control Ltd of Telford, in the UK, is pleased to announce that they have merged operations with MJD Technologies, a prestigious electronics company specialising in transformer rectifier and metal finishing products manufacturing.

BAC and MJD have worked together for nearly 5 years within the cathodic protection and corrosion control industries and the merging of the two companies will now help in the development and progression of BAC.

MJD operations and staff have all moved over to the BAC premises and the company has been incorporated into the BAC organisational structure, having been renamed BAC Power Control Technologies.

BAC now aims to develop business within the transformer rectifier market using their own contacts and also penetrate the market of metal finishing using the past experiences and contacts of MJD. The ISO 9001:2000 certification, granted to BAC in 1995, has also been changed to accommodate the additional manufacturing capability.

BAC CORROSION CONTROL AND MOTT MACDONALD ARE PARTNERS ON AN INNOVATIVE R&D PROJECT SUPPORTED BY THE DTI

Mott MacDonald is the lead partner for a prestigious research and development project supported by the Department of Trade and Industry (DTI). The project - "Enhancing the performance of pulsed current applied coatings in corrosive environments" - aims to further develop a novel and advanced treatment for Accelerated Low Water Corrosion (ALWC) - a process of enhanced corrosion of steel in seawater, which currently costs the maritime industry millions of pounds.

Mott MacDonald and BAC Corrosion Control have developed LATreat™, a cost-effective and environmentally-friendly advanced material coating technology. It arrests ALWC and imparts long-term protection against future attack. A patent for the method and apparatus was granted in January 2004. LATreat™ has the potential to positively impact on the modern built environment, reduce consumption of new materials and improve sustainability.

The project will aim to enhance and develop this technology by researching the fundamental mechanisms of the coating to optimise the process and develop the apparatus to ensure effective coating application. This will be achieved through research at the University of Manchester, as well as undertaking on-site trials across the UK to commercially validate the technology. As part of the project the University of Manchester has received funding from the Engineering and Physical Sciences Research Council (EPSRC) and will be appointing a PhD student specifically for the project.

In addition, further work will be carried out to explore the potential of using this technology for other applications.



ISOZIN ZINC TAPE RECEIVES UNI STANDARD

ISOZIN laminated Zinc Tape has recently been assessed and formalised with the introduction of a specific Italian UNI 10781 standard. Typical applications including above ground pipe work, storage tanks, and splash zone protection. Other applications include street furniture such as sign and lamp posts and chassis members and other corrosively risky areas in rail and tram carriages and other vehicles.

The UNI standard, number UNI 10781:2005, titled 'Laminar zinc coating for atmospheric exposure', covers Zinc pressure sensitive, adhesive tape requirements and coating application and testing methods. The new English version of the standard is available at www.uni.com and details:

"The requirements for the materials to be used in laminar zinc coating, for testing and application methods of such materials and for commissioning of the applied coating. The laminar zinc coating is field applied to assembled metallic structures or single elements of same, exposed to the atmosphere in temperate climate areas."

ISOZIN laminated zinc tape comprises a layer of 99.99% pure zinc 80 microns (0.08mm) thick with 25 microns (0.025mm) of adhesive protected by a removable siliconised paper. It is available in 50 metre long rolls in widths ranging from 10mm up to 300mm.

The product is designed to cover unpainted iron, steel and light alloys to provide local corrosion protection that, in most cases, will last longer than the life of the structure being protected. The tape has the advantage over hot dip galvanising of being able to extend the protection by double or even triple by wrapping the substrate more than once if the client wishes to. This is not possible with hot dip galvanising, which has been a popular method of protecting in the past.

A SIMPLE CORROSION PREVENTION SOLUTION FOR STEEL IN CONCRETE

A new product has been introduced to the market by BAC Corrosion Control Ltd which helps prevent corrosion and subsequent deterioration of steel reinforced concrete structures due to the affects of corrosion of the embedded reinforcing steel.

Zinc Layer Anode (ZLA) consists of a 0.25mm thick high purity sheet of zinc foil, coated on one side with a 0.75mm thick low resistance ionic-conductive gel. The gel side of the foil is covered with a temporary non adhesive plastic liner which provides protection to the gel prior to installation.

ZLA provides galvanic cathodic protection when the zinc foil is connected to the reinforcement and the ionic -conductive gel is in contact with the concrete surface.

The product can be used as a preventative system, installed in the early life of a structure or as a remedial system for older structures suffering form deterioration due to corrosion.

ZLA is suitable for all atmospherically exposed reinforced concrete structures which are suffering from, or are susceptible to corrosion caused by chloride ingress and/or carbonation.

Advantages for the product include easy to install, self regulating and requires no AC power for operation. It is also a cost effective corrosion control solution compared with other current electro-chemical control methods and is proven to prevent incipient anode formation following patch repairs.



BAC BECOMES EUROPEAN DISTRIBUTOR FOR SUPERMAG ANODES

Leading Cathodic Protection specialists BAC Corrosion Control Ltd, have recently become European distributors of Galvotec Alloys' high potential 'SuperMAG™' anodes.

Since 1984 Galvotec Alloys, based in Texas, USA, has been and continues to be a premier manufacturer of high quality Sacrificial (Galvanic) Aluminum, Zinc and Magnesium Anodes. Galvotec Alloys has developed an excellent reputation internationally within the Corrosion Control industry as a result of their total commitment to quality in every aspect of their business.

For a long time, BAC Corrosion Control Ltd and Galvotec Alloys have worked together combining contacts and experiences from the US and Europe. This relationship has now progressed into a distributorship with BAC being the European Distributor.

Packaged SuperMAG™ Anodes are prepacked in cotton bags, in low resistivity, quick wetting, prepared backfill consisting of 75% hydrated gypsum, 20% bentonite and 5% sodium sulphate.

SuperMAG™ High Potential Anodes have a minimum open circuit potential of -1.70 Volts referenced to Cu/CuSO₄. Typical current capabilities are 1100 Amp/Hrs/Kg or better.

Anodes can be supplied depending upon customers requirements, but the BAC standard stock are 7.7kg bare weight and come complete with 5m length of 6mm² XLPE/ PVC red cable.



SPECIALIST FABRICATED STEEL PIPELINE INSULATORS

Cathodic protection specialists BAC Corrosion Control Ltd have recently launched their own range of specialist fabricated steel insulators.

BAC fabricated steel insulators will safely support and insulate carrier pipes of various diameters within casings and tunnels and can be designed to accurately centralise the pipes within the casings. The insulators are fabricated from high grade steel and are either coated with high grade PVC or zinc plated dependent upon the customer's requirement.

Solid injection moulded polyethylene skids are produced and these are capable of withstanding in excess of 25 tonnes of compression and temperatures of 120°C (250°F). Each skid is fixed to the insulator by two welded studs. The skids will suit most types of applications and load requirements and are available in 19mm and 38mm thickness.

When there is a high differential between carrier pipe and sleeve size, insulators with skid risers are supplied to either accurately centralise the pipe within the casing or radius to customer's requirements. The skid riser is fabricated from high grade steel and has supporting gussets on 600mm carrier pipes and over.

BAC fabricated steel insulators are available in any standard size up to 1050mm diameter and can be made to customers special requirements in greater diameters if required.



FORTHCOMING EXHIBITIONS

2007 Offshore Technology Conference

Reliant Centre, Houston, Texas, USA
April 30th-3rd May 2007

Sustainability Live Exhibition 2007

National Exhibition Centre, Birmingham, UK
1st-3rd May 2007

Intergas 2007

Cairo International Convention & Exhibition Centre, Egypt
May 15th-17th 2007

Kuwait Oil & Gas Exhibition 2007

Kuwait International Fair Ground, Kuwait
October 22nd-25th 2007

The 6th Libyan Corrosion Conference & Exhibition

Dat El-Emad Complex, Tripoli, Libya
November 12th-14th 2007

BAC MANAGEMENT SAYS...

Welcome to the latest edition of our corporate Newsletter "Protection and Connection" which has been published in early 2007. 2006 proved to be another successful year which we aim to carry forward into the New Year. 2007 is expected to be a busy year with the launch of the new Easybond MKII Pin Brazing equipment and the new Zinc Layer Anode (ZLA) for steel in concrete protection to run alongside ISOZIN Zinc Tape "Galvanising on a Roll". The production and manufacture of Transformer Rectifiers is also expected to increase during 2007 following the merger of BAC and MJD Technologies during 2006. All of these products and more will be available for discussion at any time and at the exhibitions detailed on the back page. Thank you to all customers whether you are new or returning and we look forward to working with you in 2007."

Tony Gerrard
Managing Director