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Fastener

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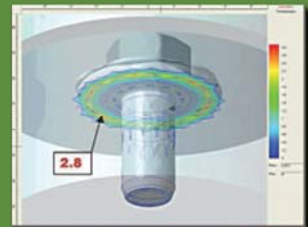


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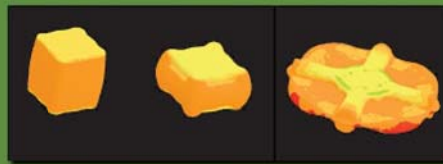
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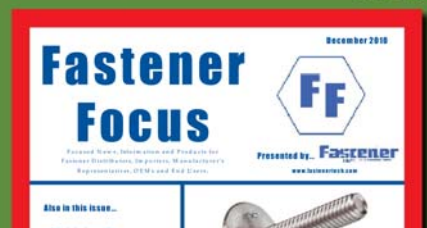
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FTI Technical Achievement Awards Class of 2010

Fastener Technology International proudly presents the fifth annual
FTI Technical Achievement Awards, Class of 2010: Paul Badryka.
Congratulations to this year's winner.

Paul Badryka

Nominated for developing a new ingenious single-coat, zinc-rich fastener coating system to replace zinc plating and trivalent passivation, is **Paul Badryka** of **Magni Industries, Inc.**, Detroit, MI, USA. Complying with industry market demands for increased corrosion protection at no increase in cost, Badryka's Magni 501 system is ideally suited for fasteners, especially recessed parts as well as stampings. Badryka developed the Magni 501 system to be cost effectively applied via dip/spin or spray application methods.

Paul Badryka is a Senior Design Associate on the Research and Development staff at Magni Industries, and he has worked at Magni Industries for 32 years. Badryka has developed a wide variety of coating systems that are used everyday for the building, automotive and aerospace markets and is a co-inventor on a patent-pending coating to resist the corrosive attacks of biofuel blends for fuel tank applications.

The key to Paul Badryka's development was discovering a combination of unique chrome-free, anti-corrosion pigments to be blended into the 501 coating system as a requisite to extending the service life of the steels used to make fasteners and stampings. The other key design goal was creating the rheology necessary to achieve better film forming characteristics when coating fasteners in bulk applications without sacrificing cathodic protection. The chemistry selection results in improved physical properties that help achieve uniform film thickness and better coverage of sharp dihedral thread crests over a wide range of g forces, resulting in improved adhesion and chip resistance to accommodate bulk processing issues common to the fastener industry and during power tool installation.

As a result of these efforts, Magni 501 offers corrosion protection up to four times that of com-



Paul Badryka, nominated for the development of the Magni 501 coating system for fasteners.

mercial zinc plating and trivalent passivation, no hydrogen embrittlement concerns, resistance to automotive fuels, a paintable surface, very good adhesion and cohesion characteristics and consistent torque tension relationship. Magni 501 also offers compliance to *RoHS*, *WEE*, *ELV* and *REACH* standards.

Specifically, with Magni 501 Badryka was also able to achieve each manufacturer's unique torque/tension requirements for automated high-speed assembly line conditions by including internal lubricants, so no oil or post-coating sealers are required.

The coating's friction is consistent following multiple rundowns, environmentally friendly and multi-year durable.

www.themagnigroup.com



Fasteners coated with Magni 501 developed by Paul Badryka.

FTI Technical Achievement Awards are given out annually to individuals in the fastener industry that have been responsible for major technical developments related to making, distributing or using fasteners. The awards honor individuals responsible for major practical technical developments that have improved the way fasteners are manufactured, used or how they perform. Award recipients have been selected from nominations made to this magazine. We reviewed each

nomination, consulted outside advisors when necessary and made the final decisions. Also, there is no time limit on when a nominee's technical development was made—it could have been in the last year, several decades ago or anywhere in between. Also, there is not a minimum or maximum number of awards granted each year. The nominations for the *Class of 2011* awards should be submitted by email by November 1, 2011 to mcnulty@fastenertech.com.