



# WISCONSIN MECHANICAL

Technology Leadership in Mechanically Applied Coatings

## Wisconsin Mechanical tops market expectations with new nail finish!



### THE ACQ STORY AND WM-ACQ-2000™!

Industry coatings technology leader, **Wisconsin Mechanical** introduces another new and innovative finish that has revolutionized fastener coating technology! **WM-ACQ-2000™** for use in ACQ Pressure Treated Lumber is a technology that provides triple protection against premature corrosion of fasteners assembled in the wood structure. Now, this **WM** process and finish can assure

long-life protection and structural integrity of ACQ wood framing, decks, and a variety of other structures. The new **ACQ-Treated** wood products create a more corrosive environment for coated fasteners, critical flashings, bottom slab plates and anchors, and other connectors used in this application. For many years, the norm for wood preserving was CCA (Chromated Copper Arsenate), approximately

composed of 60-70% CrO<sub>3</sub>, 15-20% CuO, and 15-20% As<sub>2</sub>O<sub>3</sub>. The arsenic and chromium are considered toxic and this has led to legislation to end its manufacture and availability for a variety of applications as of January 1, 2004. The new **ACQ-Treated** wood, containing alkaline copper and quaternary ammonium compounds, is the industry's answer to the requirement for more environmentally compatible treatment. It contains approximately 60-70%

- Excellent corrosion protection
- Resistance to chipping
- Excellent lubricity
- Good wear and abrasion resistance
- Environmentally compatible coating and process characteristics
- An alternative to many currently used finishes

## WM-ACQ-2000™ solves the problem!

CuO and 30-40% didecyldimethylammonium chloride (DDAC). There is no chromium or arsenic, but up to about 4 times the copper. Copper, while a good biocide, is at the same time corrosive to steel fasteners and their coatings. The fear is that the new **ACQ** lumber is 4-5 times or more corrosive to the fasteners. **WM-ACQ-2000™** is generally superior to that of other typical finishes used to protect fasteners such as zinc

and alloy electroplating, hot dip galvanizing, and certain organic and paint coatings. In the true sense of the word, the coating is not an alloy but a matrix of metals and linking agents applied by physically mixing them in a aqueous slurry and then using the **WM** process to bond them to the part. The **WM-ACQ-2000™** fastener coating system provides a number of advantages which are significant in today's push for a better performing fastener.

The **WM** coating utilizes the characteristics of its multi-metal/binding agent/topcoat component matrix, to provide:

- Excellent corrosion resistance in **ACQ treated** wood products
- Resistance to chipping
- A very high operating temperature range
- Excellent lubricity
- Good wear and abrasion resistance
- Post finishing compatibility
- Environmentally compatible coating and process characteristics.

**WM has Top Nail Finish in market for another year!**

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