

crack control characteristics of coated and uncoated bars. Final results and a report are expected in late 1993.

University of Waterloo

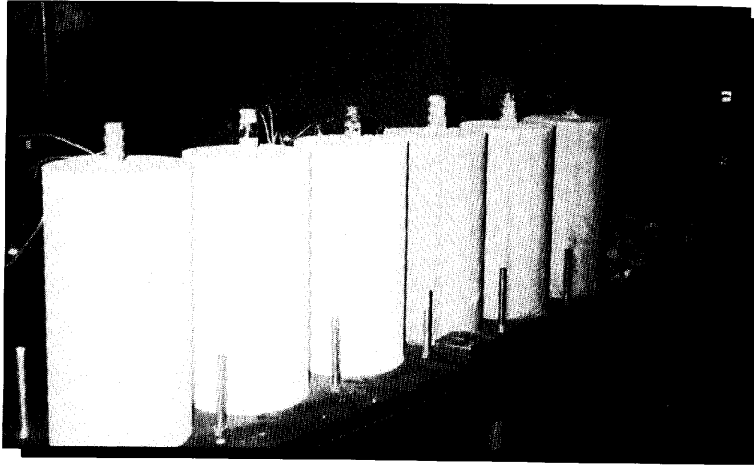
Professor Robert McKim, of the Department of Civil Engineering, is overseeing a Master of Engineering thesis performed by Ken Logtenberg to study **damage to epoxy coated steel** as it moves through the chain from fabrication to placement in the formwork and after consolidation of the concrete. The study will use statistical sampling as well as the inspection of actual bars traced through the coated rebar distribution channels, from coating through fabrication, placing, and concrete pouring and consolidation (removed from concrete pours. The results are expected in fall of 1993.

Bar Geometry, Mill Practice Aid in Coating Quality

Rebar producers have made, and are making changes to improve the quality of reinforcing steel for epoxy-coating:

- ♦ The geometry of the rib has been improved to help meet coating requirements.
- ♦ Mill practices and packaging have been altered to produce bars with improved straightness and bundle quality
- ♦ Bundles are now protected from road salt during transportation.

The rebar producers are committed to ongoing developments that will improve the "coatability" of rebar to ensure a more uniformly coated and more corrosion resistant product.



Canadian Strategic Highway Research Program

Together with the RSIC, CSHRP is performing a study of the effect of exposure on the quality of epoxy coated steel. Bars will be placed in three distinctly different location across Canada: New Brunswick, Ontario, and Alberta. The study is expected to improve specifications on the storage of epoxy coated rebar. The first phase of the study, using untreated epoxy coated bars, has begun. The second phase, using new technology bars will begin in August

1993. Each study will expose the bars for one year.

Ministry of Transportation, Ontario

The MTO Research Department, under **David Manning** has recently completed an in-house study of **steel tipped vibrator damage** to epoxy coated rebar caused during concrete consolidation. The results showed significant damage to the epoxy coating due to vibration and has prompted the MTO to require rubber tips on all concrete vibrators in structures using epoxy coated rebar.

RSIC Protection and Coating Committee - Who We Are

The Protection and Coating Committee, formed from the membership of the Reinforcing Steel Institute of Canada, is a group of concerned industry coating specialists whose goal is to monitor the development of corrosion protection systems for reinforced concrete; to evaluate and monitor research and changes in specifications; and to establish and promote standard coating practice. The membership is drawn from bar coaters and fabricators, steel mills, and powder manufacturers who provide engineers, metallurgists and coating specialists.

This report is our first step in informing the engineering, specifying, and contracting community of the exciting changes in the epoxy coated rebar industry. If you have any questions, concerns, or comments, or require any information about epoxy coated reinforcing steel, call the RSIC at 416-499-4000. The staff will direct you to the members on the committee who will best be able to respond to your inquiry.

The Protection and Coating Committee of the RSIC