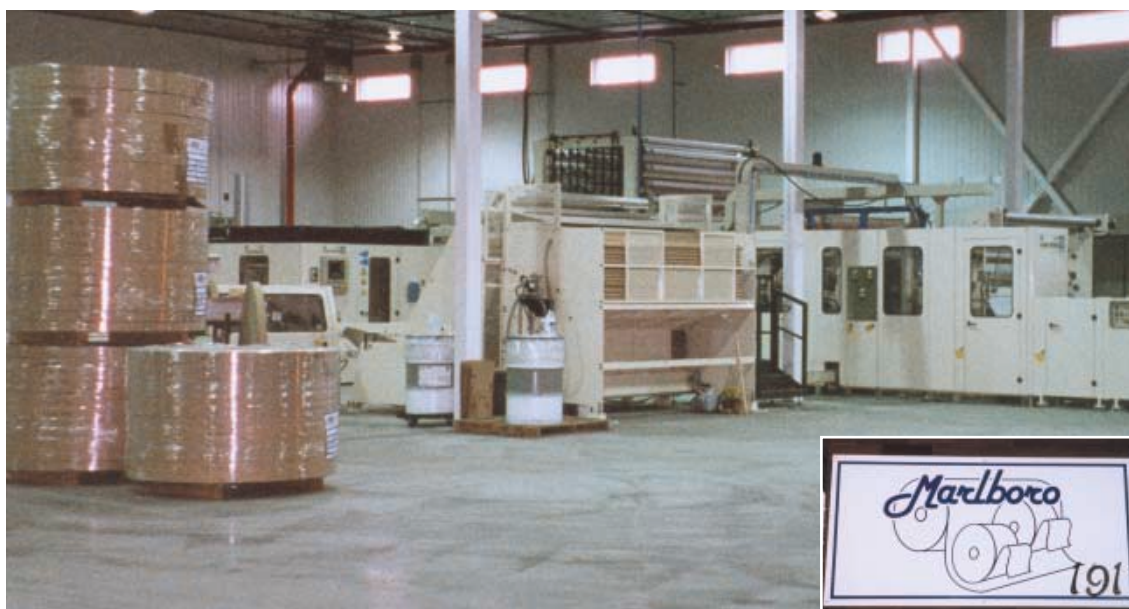


STRUX® 90/40

Synthetic Macro Fiber Reinforcement

When a paper manufacturer realized fibers hold more than paper together



Marlboro Papers Inc. Manufacturing Plant
Drummondville, Quebec, Canada

When Marlboro Papers Inc. decided to expand the capacity of their current manufacturing plant located in Drummondville, Quebec, Canada, the owner, Richard Parenteau, wanted to ensure any investment he made in floor slab reinforcement technology would provide the necessary durability and strength at a cost effective price.

At another site owned by M. Parenteau, they had recently uncovered a wire mesh mess. When they cut through the old concrete floor, the wire mesh, installed to provide structural support to the concrete floor, was located at the bottom of the slab. For his addition, he wanted reinforcement throughout the concrete to guarantee the future durability of his floor.

M. Parenteau spoke directly to the concrete supplier, Béton Central Enr., in an effort to get a better understanding on the differences between steel and fiber reinforcement and obtain information concerning the options available to him.

Guy Boucher, manager of Béton Central Enr., brought along an example of a concrete sample, formed using STRUX® 90/40. He

“Fibers provide strength to our paper products, so I knew the placement of STRUX fibers in the concrete would result in a tougher and tighter system.”

Richard Parenteau
General Manager
Marlboro Papers, Inc.

explained how STRUX 90/40 would provide the type of strength and support M. Parenteau was looking for in his new concrete floor. Additionally, M. Boucher explained that the unsettling problem M. Parenteau uncovered concerning the wire mesh used in his previous floor would be completely eliminated because of STRUX 90/40's exceptional three dimensional design characteristics.

STRUX 90/40 is a synthetic fiber 40mm (1.5 in) in length specifically designed to replace welded wire fabric, light reinforcing bars and steel fibers in flooring applications. With STRUX 90/40, fibers are mixed throughout the concrete matrix, providing three dimensional reinforcement, eliminating any concern over proper positioning of reinforcement.

When M. Parenteau saw the concrete sample broken in half, exposing the STRUX 90/40 fibers, he knew this type of technology was exactly what he needed for his new floor. In fact, the concrete sample immediately reminded him of the fiber used in all of his products to provide added strength.

The actual concrete placing process went extremely smooth, and the concrete was easy



The use of STRUX 90/40 provided structural integrity to the concrete floor with no fibers visible on the surface.



STRUX 90/40 is specially designed for improved pumpability in flooring applications.

"I appreciated the fact that STRUX 90/40 as a replacement for welded wire mesh was easier to use and foolproof. I will certainly use it more extensively."

Pierre Paquette
Project Manager
Honco Steel Buildings

to pump. In addition to using STRUX 90/40 in the concrete mixture, Béton Central Enr. also added WRDA® 20, a water reducer, and DARACEM® 19, a superplasticizer, making the concrete even easier to place and adding durability to the finished floor.

The final result for the expanded Marlboro Papers Inc. manufacturing plant was a new concrete floor with fiber reinforcement guaranteed to be in the right place while providing the necessary durability and strength. The finished surface was excellent with no fibers visible on the surface of the floor.

PROJECT CREDITS:

Project: Marlboro Papers Inc., Drummondville, Quebec, Canada

Concrete Supplier: Béton Central Enr., St-Eugene, Quebec, Canada

Contractor: Honco Steel Buildings, St-Nicolas, Quebec, Canada

www.graceconstruction.com

North America Customer Service: 1-877-4AD-MIX1 (1-877-423-6491)

STRUX 90/40, WRDA 20 and DARACEM 19 are registered trademarks of W. R. Grace & Co.-Conn.

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the users' consideration, investigation and verification, but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation or suggestion is intended for any use which would infringe any patent or copyright. W. R. Grace & Co.-Conn., 62 Whittemore Avenue, Cambridge, MA 02140. In Canada, Grace Canada, Inc. 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6.

This product may be covered by patents or patents pending.
STRUX-17C Printed in U.S.A. 12/07

Copyright 2007. W. R. Grace & Co.-Conn.
ESD/LI/1.5M

GRACE