

# PORON<sup>®</sup> XRD<sup>™</sup> MATERIAL ABSORBS IMPACT NOTHING ELSE

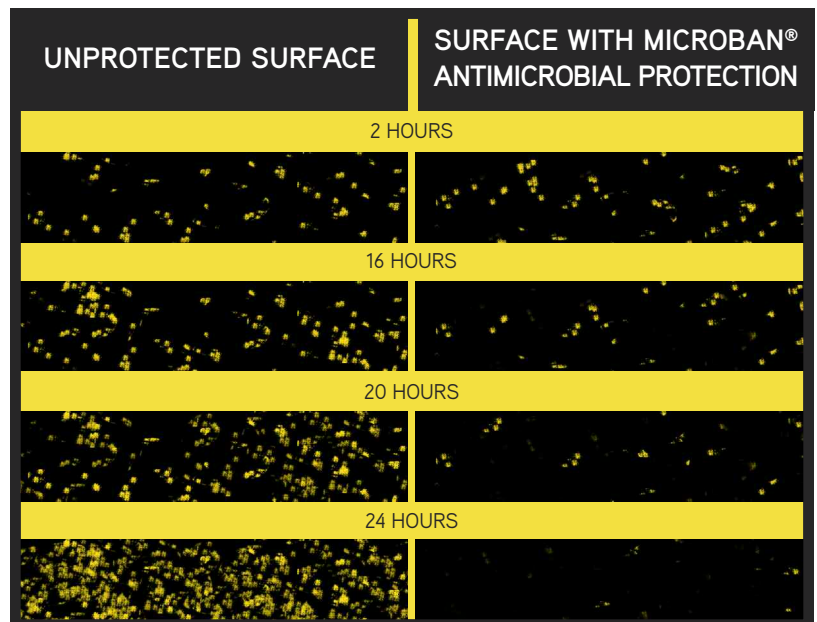
PORON<sup>®</sup> XRD<sup>™</sup> Extreme Impact Protection Material now gives you consistent, reliable and long-lasting protection from the inside-out. PORON XRD Material with Microban<sup>®</sup> antimicrobial protection inhibits the growth of bacteria, mold and mildew that can cause stains, odors and product deterioration. Now available in all PORON XRD standard materials, you can rest assured that these two technologies are working together to help your products stay stronger, longer.

The growth of bacteria and fungi is common in many footwear, sports equipment and apparel products due to their prolonged exposure to moist environments and the accumulation of nutrients and contamination from repeated use. It is primarily the metabolic byproducts of bacteria that cause odors. Microban<sup>®</sup> antimicrobial protection is infused into PORON XRD Materials for lasting protection that won't wash off or wear away for the lifetime of the foam, working continuously to keep the material cleaner and fresher longer.



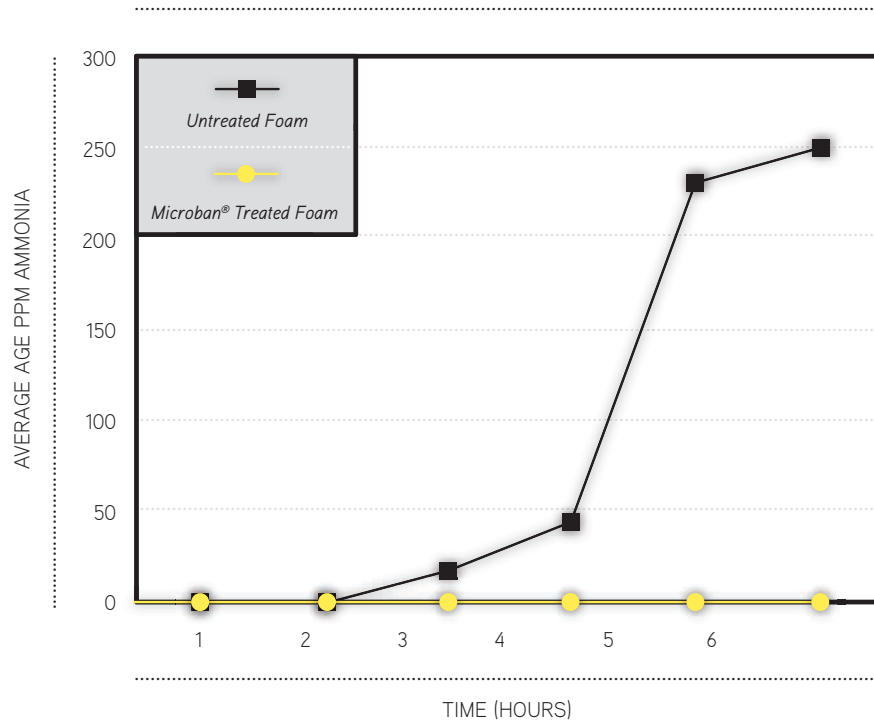
## HOW DOES MICROBAN<sup>®</sup> ANTIMICROBIAL PROTECTION WORK?

- Microban<sup>®</sup> antimicrobial technologies are infused into products during the manufacturing process and become a permanent part of the molecular structure.
- When microbes come in contact with the product surface, Microban<sup>®</sup> protection penetrates the cell wall of the microbe and disrupts key cell functions so that the microbe cannot function, grow or reproduce.
- Microban<sup>®</sup> technology protects PORON XRD Materials from the growth of bacteria, mold and mildew that can cause stains, odors and product deterioration.



This information is based upon standard laboratory tests and is provided for comparative purposes to substantiate antimicrobial activity for non-public health applications. Microban technology is not designed to replace good hygiene practices or protect users from disease causing microorganisms. Antimicrobial action limited to product surface.

### MICROBAN PROTECTION FIGHTS STAIN- AND ODOR-CAUSING BACTERIA



\*AMMONIA PRODUCTION BY PROTEUS VULGARIS ON URETHANE FOAM

### REDUCING ODOR WITH MICROBAN® ANTIMICROBIAL PROTECTION

Warm, moist environments—like sports gear storage areas—provide favorable conditions for bacteria and developing odors. Hot, sweaty gear becomes moldy, bacteria-filled, stinky gear. It happens to everyone, but it doesn't have to.

Rogers Corporation has teamed up with the Microban International, the world leader in branded antimicrobial protection, to offer you PORON® Performance Cushioning materials with Microban® antimicrobial protection.

**THE TEST:** The internationally recognized JIS Z 2801 test was modified to accommodate the foam matrix to compare untreated PORON Cushioning Material samples to PORON Material samples treated with Microban antimicrobial protection.

**THE RESULTS:** Test results showed that after 18 to 24 hours, PORON Cushioning Materials treated with Microban antimicrobial protection eliminated 99% of odor production, keeping materials fresher, longer.

*For a more complete review of the study, contact your Rogers Corporation representative or the Rogers Corporation marketing department.*

MICROBAN is a registered trademark of MICROBAN PRODUCTS COMPANY.  
 © Registered trademark of MICROBAN PRODUCTS COMPANY. © 2004 MICROBAN PRODUCTS COMPANY. All rights reserved.  
 FOR ADDITIONAL TESTING INFORMATION PLEASE VISIT WWW.PORONXRD.COM

The world runs better with Rogers. The Rogers logo, PORON and XRD are licensed trademarks of Rogers Corporation. All rights reserved. Printed in U.S.A. Publication #15C-074

The information contained in this Sell Sheet is intended to assist you in designed with Rogers' PORON® XRD™ Extreme Impact Protection. It is not intended to and does not create any warranties, express or implied, including any warrant of merchantability of fitness for a particular purpose or that the results shown in this Sell Sheet will be achieved by a user for a particular purpose. Each user must develop its own design and should determine the suitability of Rogers' products for that design.

**WARNING:** No impact absorbing material can prevent all injuries that may occur when the body is subjected to impact. Rogers makes no representation or warranty that PORON XRD Extreme Impact Protection material will prevent such injuries. The user of protective gear containing Rogers' materials should be aware of the limitations of the gear and should exercise reasonable care and caution in the undertaking of activities that may result in impact to the body.