

Technical Services Bulletin**April, 2009*****Beaulieu's Healthy Additives in Today's Carpets***

Because today's nylon, olefin and polyester carpets are made from synthetic materials, they are considered to be innocuous in nature. The pile yarns and woven backing materials used in today's carpets consist of the same materials used to make a wide variety of everyday items including clothing, upholstery, draperies, bed covering, apparel, food and drink containers, and surgical implements ranging from artificial valves to sutures and I.V. tubing.

Formaldehyde has not been used in any material or manufacturing process in the carpet industry since 1982.

Silver and Copper Ions that are found in Beaulieu's Silver Release are known for ability to prevent the growth of bacteria, mold and mildew, and the odors associated with the presence of bacteria and fungi. The use of Zinc Ions with Silver Ions in our new Silver Release enhances the antimicrobial properties of this treatment. Silver, Copper, and Zinc Ions can be integrated into textile yarns, or applied as a separate coating. Metallic ions are not associated with heavy metals.

Although the use of these products is new to the carpet industry, silver has been used for some time as a broad-spectrum antibiotic, for wound dressing strips, and as part of wound packing by leading hospitals in the U.S. The use of same as a medical treatment dates back to 1920.

As a trace element, copper is considered essential to human health. Its use in fighting disease dates back to ancient Egypt. Copper has been used to sterilize wounds and purify drinking water. Copper has also been used to combat bacteria common to the presence of mold and mildew. Recent studies have linked copper's role in supporting the immune system.

Zinc is essential for human health. Deficiencies of Zinc are associated with the presence of disease and infections. Zinc was used by ancient Romans to treat wounds. Zinc is recognized today for its potent antimicrobial properties.

Magic Fresh is an environmentally safe odor-reducing, surface active treatment that relies on a proprietary salt-based additive very similar to sodium bicarbonate (baking soda). Baking Soda is used for numerous purposes, including for food preparation, foot and body powders, toothpastes, and deodorants. Magic Fresh's ability to absorb and convert strong and pungent odors into odorless carbon dioxide (CO₂) has been scientifically documented.

Magic Fresh and Silver Release have demonstrated characteristics, associated with what is necessary to help promote a cleaner and fresher indoor environment.

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