

## What is Quantum Guard HP?

Quantum Guard HP is the highest performing commercial urethane finish in the industry. The patented wear layer is a suspended ultraviolet cured urethane topcoat with an additive of aluminum oxide. In our extensive research, we have found that this aluminum oxide additive provides unparalleled appearance retention, durability, and slip retardant properties. Aluminum oxide is an extremely hard mineral found on the MOH (Hardness Scale) at a 9; the hardest mineral on that same scale is a Diamond at 10. Aluminum oxide has been used for decades to add slip-resistance to coating systems and to protect the surface of hardwood flooring. Today, Mannington has engineered this same technology for coating systems on our resilient products. The suspension of this very hard mineral protects the appearance of the product, allows for a no-polish maintenance option and provides superior scratch, scuff and stain resistance.

## Why Quantum Guard HP?

All vinyl flooring products on the market today have some type of factory applied finish coat. To understand why Mannington's Quantum Guard HP gives you the highest level of performance, let's review the four main types of coating systems currently available: **First Generation – Vinyl**; **Second Generation – Urethane**; **Third Generation - UV-Cured Urethane**; and **Fourth Generation - UV-Cured Urethane with suspended aluminum oxide additive (Quantum Guard HP)**. One of the main disadvantages of Vinyl, Urethane, and UV-Cured Urethane coatings is that they all require site-applied polishes for optimal performance in the areas of scratch and abrasion resistance in high traffic areas, and there are many **disadvantages to site-applied polishes**:

- ✓ A complete shut-down of the area is necessary during the stripping and re-coating procedure
- ✓ Chemical strippers used in this process tend to have noxious odors and require a long time to remove the finish
- ✓ The high gloss of polish can create glare, resulting in increased accidents and patient discomfort: 1) Shiny floors can appear slippery or disturb depth perception, making walking unsteady, 2) Natural light from a window can cause glare on a shiny surface, making it difficult to navigate
- ✓ Lower levels of slip resistance than resilient goods with factory applied finishes with aluminum oxide or carpet
- ✓ The finish can be removed by hand sanitizers or other high pH cleaners that may be spilled

## Specific Advantages for Healthcare

Because the aluminum oxide is suspended throughout the wear surface, Quantum Guard HP does not require a site-applied polish, allowing healthcare facilities:

- ✓ The freedom to operate with a uniform, no-polish maintenance procedure throughout their facilities
- ✓ Reduces the amount of glare created by high gloss and highly buffed acrylic finishes
- ✓ Decreases the time it takes to clean critical care spaces, i.e., eliminates the need for repeatedly stripping and re-applying polish
- ✓ Decreases the chemicals, time and disturbance to patients and staff that stripping and re-coating can create
- ✓ Provides resistance to spills from hand sanitizers, which can stain and discolor products without this coating or with site-applied polishes
- ✓ Helps facilities comply with the recommendations from the FGI *Guidelines for Design & Construction of Healthcare Facilities*, specifically as relates to glare reduction and ease of maintenance
- ✓ Protects the visual aesthetic of the product over time, traffic, and cleaning
- ✓ The appearance is generally low- to mid-luster; but if a glossy finish is desired, floors with Quantum Guard HP can be polished
- ✓ Provides an enhanced level of traction and protection against slip compared to standard resilient sheet flooring while still maintaining excellent mobility for wheeled traffic:

	BioSpec MD - Quantum Guard HP	Comparable Product (with UV Cured Urethane Coating)
Average Coefficient of Friction	0.8857 Dry; 1.0220 Wet	0.6900 Dry; 0.7400 Wet

## QGHP's #1 Advantage = Ease of Maintenance

In healthcare settings, products with the Quantum Guard HP inherent finish are so much more desirable because they do not require a site-applied polish. Therefore, they do not require the time and traffic restrictions necessary for stripping and re-finishing. The table to the right has a comparison of maintenance methods for each flooring type.

Mannington offers a complete line of products with Quantum Guard HP for every area imaginable – from emergency rooms to waiting areas, from procedure rooms to hallways, from operating rooms to patient rooms – Mannington has the perfect flooring. Visit our website at [www.mannington.com/commercial](http://www.mannington.com/commercial) for more information on our many products designed specifically for the healthcare industry.

	Standard Resilient - Polish Method	Quantum Guard HP - No Polish Method
<b>Upon Installation:</b>		
Sweep or vacuum	Yes	Yes
Damp mop	Yes	Yes
Apply multiple coats of floor finish	Yes	No
<b>Regular Maintenance:</b>		
Sweep or vacuum	Yes	Yes
Damp mop	Yes	Yes
Wet scrub	Yes	Yes
Spray buff or burnish	Yes	No
Apply finish restorer	Yes	No
<b>Restorative Maintenance:</b>		
Apply stripping solution	Yes	No
Scrub with nylon pad/brush to remove finish	Yes	No
Squeegee and wet vac stripping solution	Yes	No
Apply multiple coats of floor finish	Yes	No