

KING MEDIGRADE®

The Antimicrobial Polymer Building Sheet for Healthcare Applications



Care & Maintenance Manual



King Plastic Corporation

Our Innovation. Your Imagination.®

Care & Maintenance

King MediGrade® is a super tough, high-density polyethylene building sheet with an advanced antimicrobial technology for protecting the product surface against stain and odor causing bacteria, algae and fungi. Unlike surface antimicrobials, King Plastic's advanced antimicrobial technology protects against bacterial degradation for the lifetime of the product.

King MediGrade® will not rust, delaminate or rot when exposed to UV, humidity or water. Healthcare facilities, medical equipment and case goods made with King MediGrade® will stay cleaner and fresher between cleanings. Studies have shown that surfaces with the antimicrobial technology can inhibit the amount of certain product-damaging bacteria by 99.99%* compared to an untreated surface. The polymer sheet never needs painting or refinishing, works like wood and is easy to fabricate using common woodworking tools and techniques.

The King MediGrade® polymer sheets are also chemically resistant. Most chemicals, except the harshest solvents and acids, will have little effect on the material.

There isn't much you have to do to keep it looking new. The following are a few tips on care and maintenance to keep all the cabinets and furniture made with King MediGrade® looking new.

- Keep teak oil and other wood preservatives and stains away from King MediGrade® components. They may permanently stain King MediGrade®.
- Rust stains are very difficult to remove from King MediGrade®, especially the lighter colors. Keep uncoated metals away from your new King MediGrade®.
- Soft deck shoes are recommended for walking on the product surface. Hard, black soles can leave scuff marks that are difficult to remove.
- Certain tree saps and berries may permanently discolor King MediGrade®. Wash frequently if your item is located under or near trees or shrubs.
- King MediGrade® will melt if exposed to extreme heat. Your designer has chosen to make your item from King MediGrade® for a particular application based on normal environmental conditions and considerable testing. Do not subject the material to a consistent operating temperature of over 150° Fahrenheit. Heat sources such as hot plates and lit cigarettes can mar the finish.
- You will not be able to paint King MediGrade®. Even polyurethanes do not hold to the material for long.
- King MediGrade® is one of our most scratch resistant polymers, but it is not scratch or gouge proof.

Cleaning

Cleaning furniture and cabinets made with King MediGrade® polymer is very simple:

- To clean everyday dirt and stains, use a cleaner such as Soft Scrub® and a nylon scrubby or stiff nylon brush. Scrub lightly; excess force can mar the finish.
- Persistent stains will usually go away if you soak the area with bleach. Do not use 100% chlorine as used to treat swimming pools and/or use a pressure washer.
- Stains and marks have been successfully removed with the following branded products: Goof Off®, Mr. Clean Magic Eraser®, and GOJO® Orange Pumice Hand Cleaner.
- To clean a petroleum stain such as grease or oil, use a citrus cleaner, alcohol or mineral spirits.
- In severe cases, spray petroleum-based stains with WD40®. Then use toluene or acetone and a white nylon scrub pad (colored pads release staining dyes when combined with acetone).
- Do not use MEK, turpentine or naphtha solvent.

Furniture polish or automotive silicone spray products such as Armor-All® can add an attractive luster to the finish of King MediGrade® and hide small surface blemishes. To prevent slipping, do not use these products on walking surfaces.

If a mark or stain won't come out, you may lightly sand the area. Be careful and only work on the stained area because sanding will remove the matte gloss finish.

Customizing with King MediGrade®

Many have found King MediGrade® to be the perfect fit when they want to make furniture and cabinets suited to the healthcare industry. Our website, www.kingplastic.com, details many innovative projects and describes the various King Plastic products. The material is easy to work with using standard woodworking tools and techniques, although users are advised to read the "Works Like Wood" instructional brochure available on our website.

A few suggestions from our website are worth mentioning:

- Use standard woodworking tools to repair or fabricate components. To create a crisp edge with a circular saw, use a good carbide blade with 60 teeth for a 10" blade and 40 teeth for a 7 1/2" blade.
- King MediGrade® cannot be glued using standard adhesives. It is preferable to use stainless steel mechanical fasteners when constructing components with King MediGrade®. Visit www.kingplastic.com to obtain the latest information and recommendations regarding adhesives and their application.

- When securing another King MediGrade® component to your cabinet or furniture items with screws, it is important to drill pilot holes in materials to be joined. When securing your King MediGrade® item to a non-expanding surface such as a wall, make an oversized hole in the King MediGrade®. This will properly allow for material expansion and contraction. For a more detailed discussion of King MediGrade® physical properties, visit our website.
- Staples work well with King MediGrade®. However, it may be necessary to use a tack hammer to drive the staple all the way in.

Popular King MediGrade® applications include: cabinetry and storage carts, clean rooms, dental facilities, hospitals, locker rooms, medical facilities, medical laboratories, mobile computer carts, nursing homes, nurses stations, rest rooms, and veterinary facilities.

Product Availability

Visit www.kingplastic.com to review the standard products and colors.

For distributor information, visit our “Where to Buy” page at www.kingplastic.com/where-to-buy or contact customer service at 941.493.5502.

These general guidelines are not intended to address every conceivable concern regarding the care and maintenance of your King MediGrade® products. Visit www.kingplastic.com for ideas and detailed instructions or send questions to sales@kingplastic.com.

*For bacteriostatic, fungistatic, & algistatic properties. This product is exempt from registration under 40 CFR 152.25(a). King MediGrade® effectiveness verified by ISO and ASTM standards. This product does not protect users or others from disease-causing bacteria. Always clean this product thoroughly after use.



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