



King Plastic Corporation

King ColorCore® FAQ

What is King ColorCore®?

King ColorCore® is a versatile multi-color engravable high-density polyethylene sheet with multiple layers of contrasting colors. It is a superior homogeneous sheet, a product of a unique state-of-the-art continuous process called Polyfusion, and manufactured to the highest standards in the industry. King ColorCore® has a matte finish on both sides of the sheet. It is environmentally stabilized to withstand the harshest outdoor conditions. King ColorCore® will not rust, delaminate or rot when exposed to UV, humidity or water. King ColorCore® is made with high-impact-resistant polymer to handle more abuse than conventional sign materials. Its thin cap layers and bright primary colors make it ideal for signage, marine, playground and recreational applications. For maximum versatility, standard colors are made to coordinate with King ColorBoard®. The polymer sheet never needs painting or refinishing, works like wood and it is easy to fabricate using common woodworking tools and techniques. The material is easy to engrave and machine, as the cap is approximately .050" thick.

What type of finish?

Matte finish on both sides of the sheet.

What colors are available?

King ColorCore® is available in 18 standard color combinations:
Blue/White/Blue, White/Blue/White, Red/White/Red, White/Red/White,
Red/Black/Red, Black/Red/Black, Green/White/Green, White/Green/White,
Green/Tan/Green, Tan/Green/Tan, Yellow/Black/Yellow, Black/Yellow/Black,
Brown/Tan/Brown, Tan/Brown/Tan, Brown/White/Brown,
White/Brown/White, Black/White/Black, White/Black/White.

Can you custom color match?

Yes. Please call Customer Service at 941.493.5502.

What is required for custom orders?

Please call Customer Service at 941.493.5502.



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What sizes are available?

King ColorCore® standard sheet size is 48" x 96". Standard gauges are 1/4", 1/2", and 3/4". Custom sheet sizes and gauges available upon request. Please call Customer Service at 941.493.5502.

Is King ColorCore® available with an antimicrobial?

Yes. King ColorCore® is upgradable to King MicroShield® with an advanced antimicrobial technology for protecting the product surface against stain and odor causing bacteria, algae and fungi.*

*For bacteriostatic, fungistatic, & algistatic properties. This product is exempt from registration under 40 CFR 152.25(a). King MicroShield® 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. 99.99% effective inhibition rate has been achieved using standardized test methods of microorganism growth versus untreated controls in lab testing.

Disclaimer: King MicroShield® may affect color.

Is King ColorCore® available with a flame retardant?

No.

What are the features and benefits of King ColorCore®?

- Environmentally stabilized – UV stabilized and waterproof
- No volatile organic compounds (VOCs)
- Chemical-resistant and easy to clean
- Will not rust, delaminate, or rot
- No finishing or painting required
- Works like wood
- Easy to fabricate
- High-impact strength
- Little to no maintenance
- Qualifies for LEED points

How can the material be fabricated and finished?

Use standard woodworking tools: table saws, table routers, drills, blades and bits. Carbide router bits with two to four flutes are recommended. For more information, please refer to the fabrication brochures.



How to clean and maintain?

- To clean everyday dirt and stains, use either Mr. Clean Magic Eraser, Soft Scrub® or Simple Green Concentrate at full strength with 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 used to treat swimming pools.
- To clean a petroleum stain such as grease or oil; use a citrus cleaner, alcohol or mineral spirits.
- For severe petroleum-based stains, spray 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 products such as Armor-All® can add an attractive luster to the finish 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 to only work on the stained area because sanding will remove the matte finish.

How to care and store?

- Store the sheets flat on a level surface
- Keep away from teak oil and other products that can stain the finish
- Use china markers or water-based markers to draw patterns
- Pen marks can usually be removed with household cleaners
- Keep away from heat sources that exceed 180°F
- Because there is no grain, parts can be cut from any area of the sheet
- Save the scraps for small parts, shims, spacers and plugs
- Remnants may be eligible for recycling; contact your distributor or King Plastic Corporation for details

What are common applications?

- Architectural Applications
- Carnival Games
- Children's Furniture



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- Marine Applications
- Museums
- Picnic Tables
- Parks and Recreation
- Point-of-Purchase Displays
- Signage and Wayfinding
- Theme Parks

Does King ColorCore® expand and contract?

Yes, at a rate of 6×10^{-5} in./in./°F degrees, changing approximately 1/32 inch for every foot of length or width over a 40°F temperature change. Please refer to thermal expansion/contraction worksheet.

Is King ColorCore® FDA approved?

Yes.

Can I use a CNC machine?

Yes.

Will the material produce dust when fabricating?

No, only small shavings that can be recycled.

Can I use King ColorCore® for a countertop?

It has been used as a countertop in some applications such as labs, but it is not recommended for a countertop.

Can I use glue or paint?

Gluing is not recommended. Because King ColorCore® sheet products are designed to resist water and grime, they cannot be painted and the use of adhesives is not recommended. Specialized welding equipment and rods, designed for use with polymer sheets, are also available.