

# Bendy Wood

## PRIMED RANGE

### Painting Guide



BendyWood Primed panels come pre-sanded and are painted with an all-purpose water-based primer.

This offers a stable base for finishing, however, to ensure a flawless, durable finish, surface preparation, paint selections, and application methods are essential.

This guide covers all steps necessary to ensure professional results.

By following these best practices, you'll achieve a professional, long-lasting finish on your BendyWood primed MDF panels.

## **FIX PANELS SECURELY BEFORE PAINTING TO PREVENT CRACKING**

BendyWood panels are flexible by design, and painting should only be done when the panels are fully secured and fixed in place.

### **Why is This Important?**

- Unsecured or flexing panels can lead to paint cracking or peeling as the material bends.
- Rigid paints like oil-based enamels and solvent-based 2K paints are particularly prone to cracking if the panel moves after application.
- Even water-based paints, while more flexible, can still develop micro-cracks if the panel is subject to movement before the paint fully cures.

### **How To Secure Panels Before Painting**

- Fix panels onto their final surface (e.g., cabinetry, walls, or framework). Ideally with the support of a sound frame/structure and additional covering such as flexy ply or flexible MDF when applied on a curve.
- Avoid excessive handling or transport after painting until the coating has fully cured.

## **SURFACE PREPARATION: THE KEY TO A FLAWLESS FINISH**

BendyWood panels come pre-primed, however additional preparation ensures the best adhesion and smooth finish.

- Check for imperfections: inspect the panel for dust, rough patches, or minor dents.
- Fill any scratches or chips with fine wood filler, then sand smooth.
- Lightly sand the entire pre-primed surface with 320–400 grit sandpaper. Use a sanding block for flat areas and hand-sand curved sections. Do not over-sand—this can remove the primer layer.
- Remove all dust with a tack cloth or microfiber cloth.
- Wipe down panels with a damp cloth or a mix of mild detergent and water. Allow the surface to dry completely before applying any coatings.

## PAINT SELECTION AND CONSIDERATIONS

Choosing the right paint is essential for a smooth and lasting finish. Different types of paint have varying adhesion properties, coverage abilities, and durability. Some paints require a primer for better adhesion, while others may need additional surface preparation to achieve the best results.

Water Based Paints	Recomendation	Example Paint Brands
Water-Based 2K Paints	Highly Recommended	Sherwin-Williams 2K Waterborne Polyurethane, Loba 2K Supra
Water-Based Enamels	Highly Recommended	Haymes Ultimate Enamel, Porter's Aqua Enamel
Acrylic Paints	Highly Recommended	Dulux Aquanamel

Solvent-Based Paints	Recomendation	Example Paint Brands
2K Polyurethane Paints	Caution – requires a solvent resistant bonding primer	PPG Commercial Performance Coatings 2K Polyurethane
2K Epoxy Coatings	Caution – requires a solvent resistant bonding primer	Dulux Luxafloor 2K Epoxy

Oil-Based Paints	Recomendation	Example Paint Brands
Oil-Based Enamels	Caution – requires an oil-based undercoat	PPG Commercial Performance Coatings 2K Polyurethane

## PRIMER SELECTION FOR PAINT COMPATIBILITY

BTC x BendyWood panels come primed, but some paints require an additional primer for optimal adhesion.

Type of Paint	Priming Needed?	Recommended Primer
Water-Based (Acrylic) Paints	Priming not required	None
Water-Based 2K Paints	Priming is optional	Water-based bonding primer
Solvent-based 2K Polyurethane	Priming is required	Solvent-resistant primer
Oil-Based Enamels	Priming is recommended	Oil-based undercoat or adhesion primer
Epoxy-based Coatings	Priming is required	Epoxy-compstible primer

## COMMON PAINTING ISSUES & HOW TO AVOID THEM

Painting problems can be avoided with good preparation and application. Knowing the pitfalls and how to prevent them can help ensure a smooth, professional finish.

Issue	Cause	Solution
Peeling/Flaking	Poor adhesion due to incompatible primer	Use a compatible primer and sand between coats
Cracking/Crazing	Panel was not secured before painting, causing movement	Water-based bonding primer
Bubbling/Blistering	Trapped moisture or improper sanding	Ensure surface is completely dry and use fine sanding

The information provided in this guide is intended as general advice for painting Bendy Bois BendyWood Primed panels. While we strive to offer accurate and practical recommendations, Bendy Bois makes no guarantees, warranties, or representations regarding the performance, durability, or compatibility of any paints, primers, or coatings used on our products.

**User Responsibility.** By using this guide, the user acknowledges and agrees that:

- **Paint Compatibility Testing is Required** – All users must perform their own tests to ensure that their chosen paint system (including primers, topcoats, and clear coats) is compatible with BendyWood pre-primed MDF panels.
- **Manufacturer Guidelines Must Be Followed** – The user must adhere to all instructions provided by BTC regarding surface preparation, securing panels before painting, priming, and application methods. Additionally, users must follow all recommendations and guidelines set by the paint manufacturer, including those related to drying times, curing, and environmental conditions.
- **Environmental and Application Conditions Affect Performance** – BTC is not responsible for paint failures due to poor surface preparation, incorrect application, incompatible products, excessive humidity, temperature variations, or any other external factors beyond our control.
- **Flexibility and Paint Cracking** – BTC x Bendy Bois panels are designed for flexibility, and paint must only be applied when panels are fully secured and fixed in place. If panels are painted while loose, bending after application may cause cracking, particularly with rigid coatings such as oil-based enamels and 2K paints.
- **Variability of Paints and Coatings** – The composition and formulation of paints and primers vary between brands and manufacturers. BTC does not endorse, recommend, or assume responsibility for any specific brand or product mentioned in this guide.
- **Professional Advice May Be Required** – Users should consult a professional painter or coatings specialist for guidance on the best primer and paint systems for their specific application.

### Limitation of Liability

To the fullest extent permitted by law, BTC excludes all liability for any loss, damage, or injury arising from the use of this guide, and will not be held responsible for any paint failures, defects, or incompatibilities resulting from third-party paint products or improper application. Disclaims all warranties, express or implied, including but not limited to merchantability and fitness for a particular purpose.

### Product Usage and Compliance

BTC x Bendy Bois panels are intended for architectural and decorative use and should be installed according to best practices. Any modification, alteration, or deviation from the recommended installation and finishing processes is at the user's own risk. Users must ensure compliance with local building codes, safety regulations, and environmental conditions. When using and finishing Bendy Bois panels, the user acknowledges that they accept full responsibility for ensuring proper compatibility, application, and long-term performance of the selected paint system. For further clarification or technical support, please contact Bendy Bois before commencing work.