

# Polyurethane Millwork - General Information

## INSTALLATION INSTRUCTIONS



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Moulded of high-density polyurethane foam, Fypon moulded products have an in-mould barrier coat, which becomes an integral part of the urethane foam as it cures. After each piece is moulded and trimmed, we apply an exterior grade primer. Polyurethane is a closed-cell product, making it resistant to moisture and insects. It resists rotting, warping cracking and peeling, as well as crumbling and deterioration.

### Storage & Handling

- Polyurethane millwork should be stored on a flat, level surface in a cool, shaded area, and should not be stored in extreme heat.
- Millwork that has been stored in a hot place should be allowed to acclimate to the installation area. Due to urethane's high insulating value, this may take up to 10 hours.
- Handle the product with care to avoid damage. If the product does become damaged, it is easy to repair. Use wood filler or automotive filler to quickly fill dents or gashes of any size. Broken moulding can be successfully rejoined with polyurethane compatible adhesive or equivalent product.

### Product Applications

- Fypon polyurethane products are to be used for decorative purposes only, not to provide structural support (except structural columns, balustrade systems and porch posts).
- Fypon polyurethane products can withstand temperatures of about 140°F (60°C). However, the millwork should never be installed in an area subject to solar temperature buildup, such as behind a storm door.
- Fypon polyurethane will resist the elements, except for direct sunlight to the yellowish (unpainted) underside of the millwork. It is important to fill damaged or cut surfaces with putty, caulk, and/or paint within a few days.

### Machining Guidelines

- Fypon products can be cut, drilled or routed similar to wood products.

### Fastening Guidelines

- Proper fastening is important in limiting the effects of expansion and contraction on the product. For best results, always use non-corrosive finish nails or screws in combination with urethane compatible Adhesive or equivalent product. Adhesive should be applied to all contact points, including joint ends.
- Power nailers work well with this product but should be adjusted to prevent over driving the fastener into the material. This will prevent excessive nail pressure which can result in cracking.

### Finishing Techniques

- Painting - Fypon products may be painted with any good quality latex paint. Usually one coat is all that is needed. See additional information on finishing and painting below. They are also suitable for many faux finishing techniques, including sponging, feathering and antiquing.
- Staining - Fypon Timber products are noted as Woodgrain/Stainable and may be stained with a good quality, non-penetrating stain. Apply stain with a 2" natural bristle brush. Begin with a circular motion, then feather the stain in the direction of the grain. For a darker finish, apply a heavy coat of stain with light pressure. For a lighter finish, apply a thin coat of stain with more pressure.
- Grout Application - Fypon Stone products do not require grout application, but it may be applied after installation to achieve a desired appearance. A urethane-based grout is recommended and should be applied per the grout manufacturer's specifications.

### Expansion & Contraction

- This product expands and contracts with changes in temperature. To minimize this characteristic the recommendations given in the Fastening section should be followed.
- When installing this product allow  $\frac{3}{16}$ " per 18' for expansion and contraction. Remember that it is recommended that all joints be glued and where possible, fastened to the substrate to prevent joint separation.

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### **General Installation Notes**

Any adhesives, sealants, fillers or paint used must be compatible with the material that is being installed (*see manufacturer's recommendations in the Finishing and Adhesives section below*). Always use corrosion-resistant mechanical nails or screws along with manufacturer's recommended adhesive product when installing all Fypon products. This combination provides a secure, long-lasting bond. Countersink all fasteners about  $\frac{1}{8}$ " and fill with product compatible filler. Exterior installations should be finished using a manufacturer's recommended caulk to prevent water infiltration behind siding, windows and doors. Some exterior installations, in particular new construction before siding is applied, may require a J-channel and/or flashing to prevent water infiltration. Installers must determine which installation technique is best for the specific situation.

### **Finishing and Adhesives**

**Polyurethane (PUR)** – Fypon polyurethane products are factory primed. Depending on product location, always use interior/exterior-grade, PUR compatible adhesives, sealants, and fillers when installing Fypon products. Consult the manufacturer's recommendations for your particular climate and the substrate you are installing to.

**Cellular PVC** – Depending on product location, always use interior/exterior-grade, PVC compatible adhesives, sealants, and fillers when installing Fypon products. Consult the manufacturer's recommendations for your particular climate and the substrate you are installing to. If painting is desired, a 100% acrylic latex paint with a Light Reflectance Value (LRV) of 55% or higher must be used. **Applying paint with an LRV of 54% or lower will void the warranty.**

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#### **IMPORTANT:**

Please read these installation guidelines thoroughly before beginning installation. Please note that these guidelines are provided only to assist with the installation of Fypon moulding and millwork products. Modified procedures may be required in order to meet specific situations, unique applications and local building codes. The manufacturer does not, under any circumstances, warrant the installation of its products. Be sure to wear appropriate protective clothing, gloves and safety glasses when working with any tools. Installer should check for and relocate all electrical wiring within the proposed installation area, as needed (be sure to disconnect all electric power before working with any electrical wiring and follow all applicable local electrical codes and safety procedures).