

## INSTALLATION INSTRUCTIONS FOR PLYNYL® W2W BRAND FLOORING PRODUCTS

\*Plynyl will deliver years of satisfactory service when installed and maintained properly. The following guidelines will assure a secure and proper installation. Consult [www.Plynyl.com](http://www.Plynyl.com) for the latest installation instructions.

### 1. MATERIAL PREPARATION:

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1.1. Product must be allowed to acclimate for a period of 48 hours at 68-75 degrees Fahrenheit (20°–24°C) prior to installation. 24 Hours before installation, unroll and smooth out wrinkles allowing Plynyl to relax.

1.2. DO NOT ROLL OR FOLD PLYNYL FACE-IN AS THIS WILL CAUSE WRINKLES AND MAY DAMAGE THE FABRIC.

1.3. Prior to installation, Plynyl must be inspected by installer and General Contractor. Any defects must be reported to Chilewich Sultan, LLC immediately at 212-679-9204. DO NOT INSTALL DEFECTIVE MATERIAL. Installation of material implies acceptance. If the material is deemed defective, Chilewich Sultan will replace it. Chilewich Sultan's liability is limited to the replacement of defective material only. Chilewich Sultan is not responsible for cost of removal or reinstallation.

### 2. SUBSTRATE PREPARATION:

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#### 2.1. General

2.1.1. The installation of Plynyl begins with proper floor and substrate preparation.

2.1.2. Floors and substrates must be clean and dry, free of dirt, oil, grease, wax, old paints, cut back adhesives, powdery surface conditions or any other substance which will compromise the adhesion or ability of the product to stick to the substrate onto which it is being installed. Any contaminant on the sub-floor must be cleaned or neutralized before applying adhesive to bond the flooring material to it. Failure to clean contaminants from the sub-floor can cause adhesive failure and allow the flooring material to come loose. Do not use sweeping agents. Sub-floors should be swept, vacuumed and damp mopped to remove soils that may contaminate or compromise the installation.

2.1.3. Floor Flatness or Levelness. The surface flatness or levelness may affect the finished aesthetic appearance of Plynyl. Though the product will conform to undulations and irregularities in the substrate it is best to level and finish the substrate to minimize or eliminate severe conditions that may compromise the final appearance of the finished work product.

2.1.4. Residual Adhesives. All existing residual adhesive which would interfere with the adhesion of Plynyl and the new adhesive, must be removed or covered up.

2.1.5. Any sub-floor conditions which compromise the secure installation of Plynyl will be the responsibility of the general contractor or flooring contractor.

2.1.6. A primer/sealer must be used over gypsum or Portland Cement based floor leveling compounds. Chilewich Sultan will not be responsible for adhesive failure when a primer is not used. Allow floor leveling compounds to dry as recommended by their manufacturer.

2.1.7. Cover and protect Plynyl edges with vinyl or metal transition strips, when they abut another material.

#### 2.2. Concrete

2.2.1. Concrete must be fully cured for 90 to 120 days or longer, depending on the type of concrete. Concrete must be structurally sound and free of curing or parting agents. Concrete should also be tested for porosity and alkalinity. Porosity test can be taken with droplets of water placed on the concrete. If the concrete absorbs the water immediately or within a short period of time, for example 60 seconds, a sealer should be applied to the concrete. Ph tests should be taken using industry acceptable testing criteria. If pH exceeds 9, notify the owner, as the floor should be treated for elevated pH condition before

installation.

2.2.2. Any cracks 1/8 " (.30cm) wide or greater, construction joints, control joints, depressions, grooves or other irregularities should be filled and leveled with a high quality, non-shrinking, latex fortified, hydraulic cement patching compound.

2.2.3. Moisture vapor emission in concrete is very common. High moisture levels must be remediated before installation. This can be accomplished with a number of moisture barrier products commonly used and available commercially. Even floors which seem dry, may have moisture passing through them, therefore all concrete sub-floors, on or above grade, must be tested. Moisture vapor emission should be tested according to ASTM F 1869-98 Anhydrous Calcium Chloride Moisture Test using the Quantitative Method. This test should be conducted using the standard calcium chloride test kit. Moisture vapor emission rates shall not exceed 3 pounds/1,000 square feet within 24 hours using the anhydrous calcium chloride test. Remember that this test only indicates the condition of the concrete slab in the area tested and at the time of the test. Moisture vapor conditions can change over time for numerous reasons.

2.2.4. Curing and Parting agents used on concrete sub-floors may not be compatible with the adhesive and may interfere with bonding. Therefore these products are not recommended.

### 2.3. Wood Sub-floors

2.3.1. Wood floors should be level to prevent imperfections or irregularities from telegraphing through to flooring materials. Nails or other fastening devices in wood should be secure so as not to protrude above the floor surface. Fill any joints or seams with filler. It may be necessary to sand the floor until a smooth surface is secured.

2.3.2. Plywood underlayment, if used, must be APA rated Underlayment Exposure I with a sanded face. Follow all APA recommendations for preparation of underlayment where resilient floorings are specified. The use of any other type of plywood will void the warranty and is not recommended as it may have adverse effects on the adhesive and the installation. All edges, splits and gaps in the plywood must be filled with a hard, quick-setting filler. Allow the filler to cure completely and then sand smooth to eliminate any ridges. Ridges or gaps left in the plywood underlayment may telegraph through the flooring.

2.3.3 Follow the APA recommendations for fastening underlayment to the subfloor. Do not use construction adhesives to glue underlayment to subfloor as these may cause installation or staining problems with Plynyl.

2.3.4 Never install Plynyl over pressure treated wood products.

### 2.4. Other Types of Sub-floors

2.4.1. Terrazzo, ceramic or other hard surface floors shall be treated in the same manner as a concrete sub-floor, with additional precautions. Surface coatings or sealers must be completely removed by light sanding or other suitably effective methods and shall be filled and leveled to obtain a smooth surface with a suitable leveling compound. Grout joints in ceramic tile installations must be leveled. Alterations in adhesive application and open time may need to be made due to the nature of the surfaces of these flooring materials. Follow adhesive recommendations and instructions.

2.4.2. Metal Floors. Plynyl may be installed over metal or raised access flooring. New metal floors are often coated with oils during their manufacture, and these oils must be removed to insure proper adhesion.

2.4.3. If Plynyl is to be installed over resilient tile then all tile must be tight and securely attached to the sub-floor and any loose or broken tile replaced.

### 2.5. QTSCU underlayment

Chilewich is confident that our product will perform if our and Ecore International's guidelines are followed. We cannot guarantee products supplied by other companies or installations done by others but we will warranty our product if the following conditions are met:

2.5.1 The QTSCU underlayment ([www.qtevolution.com](http://www.qtevolution.com)) is installed as per the manufacturers installation instructions. The installation has to provide a smooth level surface.

2.5.2 E-Grip III has to be backtroweled over the entire top surface of the underlayment to provide for a complete barrier coat. This layer of adhesive has to dry a minimum of 24 hours before installing Plynyl tile.

2.5.3 An Ecore International representative must sign off on their installation before the installation of Plynyl w2w.

2.5.4 Plynyl flooring must be installed using AAT420.

2.5.5 The final installation has to be allowed to cure 24 hours before traffic is allowed on-site.

Ecore International Contact Information:

Phone: 717.295.3400

Web Address: [www.ecoreintl.com](http://www.ecoreintl.com)

## 2.6. Radiant Heated Floors

2.6.1. Plynyl may be installed over radiant heated floors provided the temperatures do not exceed 85 degrees Fahrenheit (30°C). Make sure the heating system is off during installation since a heated floor will dry out the adhesive prematurely.

## 3. JOBSITE CONDITIONS

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3.1. Installation of Plynyl should begin only after all other trades have completed their work. Realizing that this is often not the case, the flooring material should be protected using masonite covering or other covering materials which will not trap moisture or vapor from curing adhesive. Plastic coverings should not be used.

3.2. THE WARRANTY WILL BE VOID IF PROPER PROTECTION IS NOT USED DURING CONSTRUCTION OPERATIONS.

3.3. WARRANTY WILL BE VOID IF PAINT, OR GYPSUM BOARD DUST AND DEBRIS, IS FOUND ON PLYNYL.

3.4. Dragging heavy or sharp objects across Plynyl will damage it. Rips and tears in Plynyl can't be repaired and must be replaced.

## 4. INSTALLATION PROCEDURES

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### 4.1. General

4.1.1. Installation of Plynyl flooring materials should be undertaken the same way one would install carpet relative to layout and starting points. See CRI 104 for standard industry specifications.

4.1.2. Installation of Plynyl may be done in one of two ways. It may be Loose Laid because of the backing's unique formulation that develops a lateral bond with a smooth floor surface. Or, it may be installed as a direct glue down installation. Floors requiring a Class I or Class II fire rating must be installed as direct glue down.

4.1.3. The same criteria for job site conditions and condition of sub-floor apply to Loose Laid installations. This application provides advantages over adhesive installations in that installations are quicker and less costly, flooring removal is easy and leaves no residue or adhesive on the sub-floor and the flooring can be picked up and reinstalled. Before deciding on a Loose Laid installation, a test sample should be laid on the sub-floor to determine if the product's natural adhesion is sufficient to maintain lateral stability. Seams in loose laid installations may be backed with double stick tape and then sealed with a seam sealer. Loose laid applications are not recommended for high traffic and high abuse areas. In those areas, adhesive installations are recommended.

4.1.4. Plynyl has arrows and a logo on the back so the installer can keep the material aligned properly.

4.1.5. Maintain normal temperatures for 48 - 72 hours after installation to allow time for adhesive to cure.

4.1.6. Wait 24 hours prior to a full move-in to allow adhesives to cure.

#### 4.2. W2W Installation

4.2.1. The seaming layout should be approved by the owner or architect/designer before installation is initiated. Try to avoid cross seams.

4.2.2. The weave of Plynyl w2w will not run parallel to the cut edge, therefore any wave, bow or skew in the product is normal due to the way Plynyl is woven. The tolerance for bow and skew is 1.5" in either direction. Some patterns will also exhibit a light and dark shading in the material, that is also normal. This shading is also evident at the seams where two pieces of the same style may have a different shade.

4.2.3. The installer shall establish a straight line on the floor to establish where the seam will be for the first length. Plynyl comes a nominal 74" (188cm), but the roll width should be measured to determine the actual width since it may be wider by 1"-2" (2.5cm-5cm).

4.2.4. The selvedge edge of Plynyl has to be trimmed before installation. Trim material 1" +/- (2cm-3cm) in from edge. Trim should be made with metal straight edge and sharp utility knife. The face fabric is normally skewed and it may not be possible to follow a weave line in the fabric. It is critical that the cut seam be straight.

4.2.5. Roll the Plynyl back and spread adhesive evenly with trowels recommended for type of installation. Use caution not to crease the Plynyl. Allow adhesive time to tack-up. Length of time depends on temperature and humidity but generally will be 10-12 minutes. The adhesive should be sticky to the touch but will not transfer to the finger. Do not let adhesive dry completely. Lay out the flooring into the adhesive making sure that the edge aligns up with the drawn line.

4.2.6. The adjoining length shall be laid under the straight cut edge so that the overlap between the two is about 1" (2cm-3cm). Align the two lengths so that the fill direction of the Plynyl yarns are straight across the seam. Plynyl should not be mechanically stretched, though once set into the adhesive it can be pushed into place and made to align with the opposite edge of a seam.

4.2.7. Cut through the new length of Plynyl with the straight cut edge as a guide. Remove the selvedge edge. Spread adhesive under the next Plynyl length then press the seam together.

4.2.8. Repeat the procedure above, always cutting one edge of a seam with a metal straight edge, for the remainder of the lengths required for an installation.

4.2.9. Roll Plynyl after installation with a 35-pound (20kg) roller to insure full adhesion of Plynyl with the adhesive and to eliminate air pockets. A heavier roller will distort Plynyl and should not be used.

4.2.10. Trim white strands with scissors. These strands are exposed from cutting through the core of the yarn. These protrusions are normal to every Plynyl installation.

### 5. POLYURETHANE COATING

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#### 5.1. General

5.1.1. Heavy duty uses such as food service, break rooms, corridors in hotels and offices, and retail applications would benefit from coating Plynyl after installation with two coats of polyurethane. Chilewich Sultan recommends Purethane, a water borne polyurethane manufactured by Pro-coat.

5.1.2. Pro-Coat products can be ordered through Chilewich Sultan when placing your order.

#### 5.2. Installation

5.2.1 Plynyl must be thoroughly cleaned to remove all dust, dirt, debris from the surface. Surface must be dry.

5.2.2. Prepare the 2-part Purethane system as per manufacturer's recommendations, with the following additives. Add one bottle of Purethane hardener into every gallon of Purethane. Shake vigorously for one minute and let set for 15 to 20 minutes before applying to floor.

5.2.3. Apply with a short nap roller. Allow to dry 2-3 hours before applying 2nd coat. Allow final coat to dry at least 24 hours before use. Purethane dries to the touch within 30 to 45 minutes.

5.2.4. Purethane covers approximately 350-400 square feet per gallon.

5.2.5. Do not apply Purethane on damp days or when surface temperature is below 40 degrees F.

5.2.6. Clean up with tap water.

### 5.3. Re-Coating

5.3.1. The length of time required between re-coats of the polyurethane is dependant upon the use the installation receives. To re-coat follow the installation instructions in item 5.2 above.

## 6. ADHESIVE RECOMMENDATIONS

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6.1. Chilewich Sultan LLC recommends their adhesives for all Plynyl installations. Installations using products other than the approved ones will not be covered by the warranty. Adhesives will be shipped with all orders.

6.2. For permanent direct glue down installations, use AAT #420 multi-purpose adhesive. It is to be installed with a 1/16" (.16cm) U shaped trowel. Spread rate = 200-220 square feet per gallon.

6.3. For exterior applications, use AAT #2020. It is to be installed with a 3/32" V shaped trowel. Spread rate = 117 square feet per gallon. This adhesive must be kept at room temperature to utilize the spread rate.

6.4. Use AAT #570 as a primer/sealer over gypsum and Portland Cement based floor leveling compounds.