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FLEXISURF INSTALLATION GUIDELINES

I. Before you start

Good work habits require on-site installers to review all safety and health information available. This includes the review of:

- A. Material Safety Data Sheets (MSDS)
- B. Labels
- C. Specifications
- D. Instructions
- E. Other pertinent publications

Important - This merchandise has been thoroughly inspected and carefully packed before leaving our plant. Responsibility for its safe delivery was assumed by the carrier at the time of shipment. Claims for loss or damage to the contents, should therefore be made upon the carrier as follows:

Concealed Loss or Damage Concealed loss or damage means loss or damage, which does not become apparent until the merchandise has been unpacked. The contents may be damaged in transit due to rough handling even though the carton or pallet may not show external damage. When the damage is discovered upon unpacking, make a written request for inspection by the carrier's agent within fifteen (15) days of delivery date. Then file a claim with the carrier since such damage is their responsibility. By following these instructions carefully, we guarantee our full support of your claims to protect you against loss from concealed damage.

Visible Loss or Damage Any cartons or pallets showing evidence of physical loss or damage should be examined with the truck driver on receipt. Damage and/or shortages should be noted on delivery receipt and signed by the driver. **DO NOT RETURN THE DAMAGED GOODS TO US, FILE YOUR CLAIM AS ABOVE.**

Returns You must have a RETURN AUTHORIZATION NUMBER (RA#) to return any merchandise. Contact our office at 573-783-5434 for the RA number and instructions. Merchandise returned without a RA number on the outside of the shipping carton or pallet will be refused.

Note: If shipment is damaged, you must mark the delivery receipt, "DAMAGED" prior to signing for the shipment. Briefly describe on the delivery receipt the nature and extent of the damage. This will alert the freight carrier to a problem and will make the process of filing a freight claim easier.

II. Definitions

A. Grade Levels

1. Suspended - A suspended floor is one with a minimum of 18" of well-ventilated air space below.
2. On Grade - An on-grade floor is one in direct contact with the ground or over a fill that is in direct contact with the ground. A slab on ground level is an example of this.
3. Below Grade - A below grade floor is partially or completely below the surrounding grade level in direct contact with the ground or over a fill which is in direct contact with the ground.

B. Subfloors and Underlayments

1. Subfloor - A subfloor is selected for structural purposes and is the substrate for the underlayment.
2. Underlayment - The smooth surface used as the substrate for the floor covering.
3. Subfloor/Underlayment Combination - A surface that must meet structural requirements as well as have a smooth surface for the floor covering.

III. Interior and Exterior Preparations

A. Wood Floor/Subfloor Preparation

1. FLEXISURF installation on wood subfloors is recommended for suspended subfloors only. On grade or below grade installations will be at the discretion of the installer.
2. Subfloor panels, strip wood, board or plank-type subflooring may require covering with underlayment panels (see next section).
3. Wood underlayments should be structurally sound, designed for resilient flooring underlayment purposes, with a minimum thickness of 1/4". The panels should be clean, free of any dirt, wax, oil, or residue of adhesive.
4. All wood underlayments/sub-floors should be solid, well nailed at the joints, and free from movement.
5. Old wood floors to be covered should be stripped of paint or varnish; old adhesive must be removed (see [VI.A. Cautions](#)) or if the surface has a residue of adhesive, oil, or wax, it can be covered with an appropriate underlayment.

B. Concrete Floor Preparation

1. The surface of a concrete subfloor should be dry, smooth and structurally sound. It should also be free of depression, scale or foreign deposits of any kind.
2. All concrete subfloors on or below grade level should be tested for moisture (see [III.B.7.d. Bond and moisture tests](#)).
3. Hydrostatic moisture should be less than 3# for Epoxy. Epoxy can tolerate up to 3-1/2# if the higher level is no more than 10% of all readings taken. The pH level should be between 5 - 9.
4. Paint, varnish, oil and wax should be entirely removed from all subfloors (see [VI.A. Cautions](#)).
5. Rough, uneven, cracked, score marked concrete floors should be cleaned and filled with an appropriate mastic or underlayment on any grade level. It is not recommended that expansion joints with elastomeric fillers be covered either with underlayment or by flooring. Flooring installed across expansion joints often crack or buckle when the slabs move. If flooring must be installed over expansion joints, it is advisable to make a straight knife cut through the material to prevent cracks or bubbles in the material, if the slab moves.
6. Dusty or chalky surfaces on a suspended concrete subfloor should be swept clean and sized with one coat of primer. A dusty concrete floor on or below grade can be a sign of alkali salts and a moisture test should be conducted (see [III.B.7.d. Bond and moisture tests](#)).
7. Scaly and cracked concrete may not be a good foundation for FLEXISURF installation. The installer may consider applying a topcoat of concrete.
8. Concrete Drying/Curing
 - a. Most curing compounds also reduce the adhesion properties of some adhesives that may be used with FLEXISURF flooring. They should not be used on floors intended to be covered unless they are of a kind that is known not to interfere with adhesion. It is recommended that a bond test be conducted prior to installation (see [III.B.7.d. Bond and moisture tests](#)).
 - b. Suspended concrete should be permitted to dry thoroughly with good ventilation and if possible with heat. FLEXISURF may be installed only after moisture tests and alkalinity tests prove the substrate meets the adhesive requirements (see [III.B.7.d. Bond and moisture tests](#)).

- c. On-grade or below-grade concrete floors should have a moisture barrier installed to protect from ground moisture.
 - d. Bond and moisture tests are used to determine if the concrete is sufficiently dry as well as to determine the compatibility of the flooring adhesive to the concrete subfloor. Test areas should be selected adjacent to walls, columns, etc., and other light-traffic areas. Using the flooring material specified, install at least one panel using the adhesive recommended. If after 72 hours the bond material is secure, it may be concluded that the subfloor surface is dry and sufficiently clean of foreign material for satisfactory installation of FLEXISURF flooring. Although the dryness of a below grade concrete slab can be determined at the time of installation, it is not a guarantee that the slab will be free of excess moisture forever.
 - e. Several tests for moisture are available and may be used by the contractor and/or installer. These include but are not limited to:
 - 1. Delmhorst Moisture Test.
 - 2. Protimeter Concretemaster.
 - 3. Anhydrous Calcium Chloride Test.
 - f. Where moisture is present, several methods for correcting this deficiency have been developed. These include but are not limited to:
 - 1. Sodium Silicates
 - 2. Potassium Silicates
 - 3. Surface Coatings
9. Vapor Membranes - There are many available products that have been developed for use as floor fills that include cellular concretes, resin-reinforced self-leveling cement underlayments and gypsum-based products. These are commonly recommended by the manufacturers or installers for leveling rough or uneven subfloors, or as toppings for otherwise unsuitable subfloor conditions. All recommendations and guarantees regarding their suitability and performance as underlayments for FLEXISURF flooring must be the responsibility of the manufacturer and installer of the underlayment system used. It is recommended that FLEXISURF flooring not be installed over gypsum-based patches or underlayments that have been applied to on/or below-grade concrete or damp suspended concrete. Any leveling compound used must be fully cured to avoid potential adhesive failure.
10. Because of joints between sections or concrete planks, this type of subfloor requires finishing with a concrete topping before FLEXISURF flooring is installed. Trowelable underlayment is not recommended for smoothing preformed concrete subfloors.

C. Radiant Heated Concrete Floors

- 1. FLEXISURF may be fully adhered over radiant heated concrete floors provided the maximum temperature of the floor does not exceed 85°F under any condition of use.

D. Existing Resilient Floors

1. FLEXISURF flooring may be installed over most existing resilient flooring products providing the proper installation system is used for FLEXISURF and the old resilient flooring meets the following:
 - a. It must not be heavily textured or embossed enough to show through the new installation. FLEXISURF tends to prohibit the telegraphing effect of minor textures.
 - b. It is completely and firmly bonded.
 - c. It was properly installed over recommended underlayments and substrates also recommended as being suitable for FLEXISURF flooring.
 - d. It must show no evidence of moisture, alkaline salts or hydrostatic pressure.
 - e. Waxes and other finishes should be removed if FLEXISURF is to be fully adhered.
 - f. Indentations or other damaged areas should be replaced or repaired.
 - g. The recommended adhesive (see [IV.C. Recommended Adhesive](#)) may be used for installing FLEXISURF over existing resilient flooring providing all the above conditions are met and the installation meets the adhesive requirements for the recommended adhesive. Follow the adhesive instructions for dry set installations.
2. If there is any doubt about the existing resilient flooring being acceptable as an underlayment, it should be covered with an appropriate wood underlayment or removed (see [VI.A. Cautions](#)).

E. Polymeric Poured (seamless) Floors

1. All seamless floors being used as a subfloor for FLEXISURF flooring must be well cured and free of any residual solvent, structurally sound and well bonded to a concrete subfloor. Any loose or damaged areas must be completely removed and patched with an appropriate underlayment or patching compound. There must be no history of moisture related problems.
2. Any “nubby” texture should be removed by machine sanding (see [III.D. Existing Resilient Floors](#)). Do not use a skim coat of latex underlayment to smooth the surface as it will not adhere reliably to the poured-on floor.
3. Old floor finishes must be completely removed if FLEXISURF is to be fully adhered. Ensure substrate is completely dry if old finish is wet stripped.

F. Metal

1. If FLEXISURF flooring is to be installed on or over metal, a bond test should be conducted prior to complete installation or contact Yemm & Hart Ltd for additional recommendations.

G. Ceramic Tile, Terrazzo and Marble

1. FLEXISURF flooring may be installed over ceramic tile, terrazzo or marble subfloors above, on and below grade. They should be firmly bonded to a structurally sound substrate.
2. The floor must be cleaned of all paint, varnish, oil, wax and finishes if FLEXISURF is to be fully adhered (see [VI.A. Cautions](#)). Glazed or very smooth surfaces should be abraded and badly fitted joints or cracks should be repaired. Badly worn floors or floors with low places should be repaired and/or leveled with an appropriate underlayment prior to installation.

IV. Layout, Design and Installation

Note: For all FLEXISURF sheet flooring and FLEXISURF tiles, normal flooring installation practices should be followed. For FLEXISURF sheet flooring, a staggered-joint method is recommended and should be employed whenever possible. A dry layout prior to adhering and/or seam sealing is recommended for all installations. Flexisurf flooring will follow the contour of the subfloor to be covered. The smoother the substrate, the better the finished floor.

A. General Specifications - Installation

1. Installation should not begin until the work of all other trades has been completed and the area cleared of extraneous materials. If the job requirements are such that the floor must be installed before other trades have completed their work, the installed flooring should be covered with a suitable protective covering.
2. For interior installations, all rooms, FLEXISURF flooring and adhesive should be maintained at a minimum temperature of 70°F (21.11° C) for at least 24-hours before, during and after installation.
3. For fully adhered installations, spread adhesive evenly and at the rate of coverage recommended by the adhesive manufacturer (see [IV.C. Recommended Adhesive](#)). Weights, such as sandbags, may have to be used on the edges, corners or seams of fully adhered installations while the adhesive cures.
4. For weight room applications, it is recommended that a small to medium size sheet or mat of FLEXISURF flooring be loose laid on top of the initial floor in locations where weights are consistently dropped. This will help to prevent damage to the floor, sub-floor and the weights. This will also help to prolong the life of the initial layer of flooring. The loose laid sheets or mats may be of a contrasting color to highlight the overall floor appearance and increase their visibility.

Note: FLEXISURF flooring is shipped on pallets with the top sheet upside down to protect the top finish during shipping. Please turn the top piece over prior to using so the top finish is up.

Note: FLEXISURF flooring is directional. Both the sheet and square cut tiles are marked appropriately to indicate machine direction. FLEXISURF sheets have a red arrow on the top surface of each sheet that indicates both the direction and the topside of FLEXISURF flooring. FLEXISURF sheets should be installed with all of the arrows pointing in the same direction. Remove and discard the red arrows after final installation. Remove adhesive residue left by arrows with DENATURED ALCOHOL. It is important to clean those areas thoroughly before applying finishes.

Note: The 24" x 24" square tiles are stacked on a pallet "face to face" or top side to top side. The first tile on a stack will always be bottom side up to protect the tile during shipping. The tiles have an ink mark along one side to indicate machine direction. You can see these ink marks along the side while the tiles are stacked on the pallet. The tiles are to be installed so that the ink marks are facing in the same direction. The mark is not visible after the tiles are installed. It is recommended that 24" x 24" square tiles be installed in a staggered layout. Any red arrows should be removed and cleaned with DENATURED ALCOHOL.

B. Sheet Flooring and Tiles

1. FLEXISURF sheet flooring may be installed in a loose lay format. Loose lay applications indoors are based on installer's recommendations and the end user's requirements. Limitations exist when installing FLEXISURF without adhesives, consult with Yemm & Hart Ltd before planning the installation. If FLEXISURF was rolled for shipment, the sheets and/or rolls should be reverse rolled and allowed to completely relax in a warm environment prior to installing. FLEXISURF sheets are heavy and bulky and normally require 2 people for placement.
2. Fully adhered indoor installations should use recommended adhesive and follow manufacturer's instructions (see [IV.C. Recommended Adhesive](#)). The installer should perform, at a minimum, a bond test in the area of the flooring installation to ensure the adhesive will perform adequately for the installation requirements. There are no returns allowed on adhesives.

Note: Use of any other adhesive is at the installer's risk.

3. The recommended adhesive, NORDOT[®] Adhesive #77 F (see [IV.C. Recommended Adhesive](#)) is an excellent adhesive in areas with high Ultra-Violet concentrations due to numerous glass windows. The two-part epoxy is recommended in areas involving conditions of high humidity, where any moisture may be present or drastic changes in temperature may occur, for example: ice rinks, locker rooms and shower room locations. The 2-part epoxy adhesive is also recommended for all installations involving heavy traffic conditions, such as; installations with fork truck or heavy cart traffic, warehouse or factory installations and any installations where wheeled traffic maybe present. If in doubt as to the final or intended use of the installation, only use the recommended adhesive.
4. Exterior installations require the use of NORDOT[®] Adhesive #77 F (see [IV.C. Recommended Adhesive](#)). The 2-part epoxy adhesive should be mixed and applied according to the adhesive recommendations and instructions. The adhesive should be applied as a full spread method for installation. Allow sufficient time for installation to cure properly prior to allowing foot or wheeled traffic. The following guidelines are recommended for fully adhered exterior installations.
 - a. Ensure that FLEXISURF has been acclimated to the installation temperature prior to installation. A full pallet of sheet material, depending upon the outside temperature can take as long as 7 to 10 days to acclimate if left on the pallet. If possible, the sheets or tiles should be positioned near where they will be installed to allow for faster acclimation.
 - b. Curing times for adhesives are generally affected by both humidity and temperature. The installer should consult the adhesive instructions (see [IV.C. Recommended Adhesive](#)).
5. The FLEXISURF flooring installation may require adjustment during the adhesive curing process. To reduce gapping/buckling associated with outside temperature changes, FLEXISURF should be monitored and if necessary shifted into proper position until initial hard set of adhesive takes place.

6. FLEXISURF 18" x 18" Interlocking and 24" x 24" Square Cut tiles should be fully adhered with the recommended adhesive. FLEXISURF 24" x 24" square cut tiles may be installed in typical tile patterns, i.e.; diamond pattern, staggered joint pattern. Normal tile installation procedures should be followed for these tiles.
7. FLEXISURF flooring can be field cut utilizing a razor knife and a straight edge. Flexisurf sheet or tiles may be drilled, punched, laser cut and rough-cut with handsaws. Table saws, circular saws and routers may also be used. Flexisurf sheet may also be die cut to specific shapes like the 18" Interlocking and 24" Square Cut tiles. Use caution whenever using razor knives or power tools to prevent accidental bodily harm.
8. Seam sealing of FLEXISURF flooring may be accomplished by several methods. The seams may be sealed using the Flexisurf Chemical Seam Sealer (see [IV.F. Chemical Seam Sealing](#)) or grooved and bead welded using PVC welding rod and heat gun (see [IV.G. Heat Welding Procedures](#)).
9. Reducing strips, edge guards and corner strips, manufactured from metal, vinyl or rubber are approved and may be used at the discretion of the installer but are not supplied by Yemm & Hart Ltd.
10. Logos, decorations or game lines may be painted directly onto FLEXISURF flooring using an appropriate logo or game line paint or recommended paint for those purposes (see [IV.J. Logo and Paint Recommendations](#)). It may be necessary to apply a minimum of two coats of the paint to achieve the appearance required. Interior installations should have an approved sealer/finish applied after the logo or game line paint and adhesive have cured and/or dried (see [V.E. Recommended Finish](#)).
11. To achieve tight seams, certain situations may dictate that it is necessary to trim the sides and/or ends of FLEXISURF.
12. After adhesive and FLEXISURF is in place, it is recommended that the entire installation be rolled using a minimum 100 pound flooring roller, or a suitable substitute, to embed the flooring in the adhesive and eliminate trapped air. Weights, such as sandbags, may have to be used on the edges, corners or seams of fully adhered installations while the adhesive cures. To ensure FLEXISURF flooring makes contact with adhesive along walls, door casings, etc., press firmly in place with a hand roller or with hand pressure and a cloth. It may be necessary to roll fully adhered FLEXISURF installations more than once. When using slow setting adhesives such as epoxies, it may be necessary to roll the installation a second time with a minimum 100 pound flooring roller within 1-2 hours after the initial rolling has been completed and before final adhesive set. This will help to ensure an even, consistent spread of adhesive and provide maximum bond.
13. Care should be taken when laying FLEXISURF sheets onto the adhesive. Do not drag sheet across the adhesive, rather place edge first tightly next to the adjacent sheet. Dragging the sheet across the adhesive may cause it to pull back due to adhesive memory when curing causing seam to open up. Do not scoot or slide sheet to tighten seam.
14. Border pieces for 18" x 18" interlocking tiles may be field cut from full size interlocking tiles utilizing a razor knife or similar device and a straight edge. Use caution whenever using razor knives to prevent accidental bodily harm.

C. Recommended Adhesive

Nordot Adhesive # 77F

Purchasable directly from the manufacturer or from Yemm & Hart:

Synthetic Surfaces, Inc.
PO Box 241, 2450 Plainfield Ave
Scotch Plains NJ 07076-0241

Tel: 908-233-6803 Fax: 908-233-6844
Email: info@nordot.com
Web: <http://www.nordot.com>

Note: If purchasing direct be sure to identify that the material is FLEXISURF from Yemm & Hart.

Description

NORDOT® Adhesive #77 Epoxy Adhesive was designed specifically for bonding vinyl to concrete, wood, metal and old resilient flooring, instead of removing it. #77 has outstanding vinyl adhesion, environmental, safety, handling and bonding properties not found in conventional flooring adhesives.

Mixing Ratio: 1 to 1 by weight or volume

Shelf Life: 1 year if not opened

Pot Life: 1 hour in container, 1 hour on substrate depending upon atmospheric conditions

Trowel Size and Coverage:

3/32" V notched trowel for smooth substrates (80-90sf/gal).

1/8" x 1/8" square notched trowel for rough substrates (70-80sf/gal).

Features:

Low vapor hazard

Does not contain any flammable* or chlorinated solvent

Low viscosity for easy mixing

Will not exotherm and develop excessive heat after mixing

Long pot life after mixing (about 1 hour)

Spreads easily with high coverage and minimal trowel drag

Negligible odor during application

Long open time for bonding after spreading (about 1 hour)

Pre-measured 4 gallon units for large areas

Enough head space in 5 gallon pail to permit power mixing

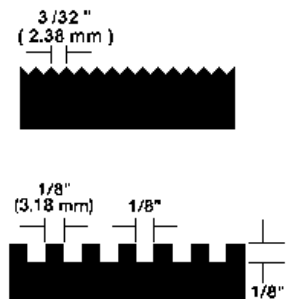
Less packages to mix, handle and discard

Less adhesive losses

Full, 1 gallon units for small installations

Meets VOC regulations

Not brittle after curing



- NORDOT® Adhesive #77 F is not classified as Flammable or Combustible Liquids under CFR Title 49 Transportation, Paragraph 173.155. However, since it contains organic materials, this statement should not be construed as indicating that the material will not burn.

D. Adhesive Application (from container label)

Nordot Adhesive # 77F

Mixing Instructions:

1. Before mixing Part A and Part B, be sure the surface to which it will be applied is clean, dry, sound, strong and free from dirt, alkali, grease, oil and other contaminants that may interfere with adhesion. Some suggested surface preparations are:
 - a. Concrete: The concrete should be cured for at least 28 days after pouring and should be free from hydrostatic pressure and curing compounds before applying the adhesive. All alkali, laticaceous dirt, oil and other contaminants must be removed. Some surface cleaning procedures to remove the contaminants, in order of preference are: acid-etching with dilute muriatic acid (10%), sandblasting, grinding, vigorous scrubbing with a strong detergent followed by rinsing, a sweeper with a strong vacuum, broom sweeping.
 - b. Wood: Remove dust, dirt, splinters, sawdust and other foreign materials.
 - c. Metal: Remove dirt, oil, rust and other foreign materials.
2. Do not mix or apply if the temperature is below 65° F.
3. Remove cover from this container (Part B) and the smaller Part A container and thoroughly stir contents of each separately to a uniform consistency. Be sure to scrape the bottom of each container and thoroughly mix in any materials that may be found there.
4. Add the entire contents of the small container (Part A) into the larger Part B container. Mix thoroughly, scraping the bottom and sides to obtain a uniform color and consistency and let stand approximately 10 minutes before applying. The useful life of the adhesive after mixing is approximately 1 to 2 hours at 70° F (shorter at higher temperatures), *do not* mix more than can be conveniently used during that time. If, for some reason, only a small quantity is needed, transfer equal volumes of Part A and Part B to a third container and mix thoroughly.
5. For Flooring Applications: Apply a thin uniform coat of the adhesive with a notched trowel, then lay in the flooring and roll for adhesive transfer. Weights may be required until the adhesive sets if the flooring has a tendency to lift or curl. If the temperature is maintained at 70° F or above, the surface should be ready for heavy traffic within 24 hours. However, the adhesive requires approximately one week to develop maximum strength.

Other Applications: The product has adhesion to a wide variety of substrates and should be suitable for many different applications. Although results may be slightly different, testing can usually be done by mixing equal parts by weight or volume.

6. Spills, tools and other equipment must be cleaned before the adhesive cures because it is not soluble in common solvents after curing. The preferred solvents are ketones, glycol ethers and esters. However, aromatics (xylene and toluene) and chlorinated hydrocarbons (1,1,1-Trichloroethane) are sometimes satisfactory.

E. Adhesive Information (from container label)

Nordot Adhesive # 77F

DANGER!

CAUSES IRRITATION TO EYES, RESPIRATORY TRACT AND SKIN

Keep away from heat, sparks and open flame. (Not classified as a flammable or combustible liquid under CFR Title 49 Transportation Paragraph 173.115. However, since this contains organic materials, the statement should not be construed as indicating the material will not burn.)

Keep container closed; store in cool, dry place.

Avoid contact with eyes and skin.

Do not breathe vapor and use only with adequate ventilation. When working in poorly ventilated areas, wear mask (respirator) approved for organic vapors. Masks can usually be obtained from a local safety equipment supplier.

In case of eye contact, Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

In case of skin contact, Immediately wash with soap and plenty of water.

For concentrated vapor inhalation, breathe fresh air.

For allergic reaction, permanently stop further exposure to this product.

CONTENTS

Part A contains: Calcium Carbonate, CAS# 1317-65-3
Reaction products of Bisphenol A with Epichlorohydrin, CAS# 25085-99-8
TSRN 38394600000-5013P
(Epoxy Resins and Additives)

Part B contains: Polymeric Aminoamides, CAS# 68082-29-1
Calcium Carbonate, CAS# 1317-65-3
TSRN 38394600000-5013P
(Polyaminoamides, pigment and additives)

NON WARRANTY AND NON LIABILITY

The contents of this container meet the supplier's requirements for packaging, shipping and selling. Material in unopened containers will be replaced if it hardens within one year of date of manufacture. However, since the supplier has no control over method of application, conditions of application, environment where used or surfaces to which this product is to be applied, there is no warranty expressed or implied. The buyer should first determine if this product is fit for his or her particular purpose. Purchase of material is not permission or recommendation to use in violation of patents or laws. Prerequisite for sale is that the buyer purchases this product at his or her own risk and with no liability to the supplier.

FOR INDUSTRIAL USE ONLY

F. Chemical Seam Sealing

Note: Seam sealing of FLEXISURF is at the discretion of the installer and/or the end user. Yemm & Hart recommends that installations that are subject to water and/or dirt becoming embedded in the seams should have the seams either chemically sealed or heat welded. Regardless of the method used, installer should practice seam sealing on scrap pieces of FLEXISURF to gain experience and become familiar with product application.

Note: Chemical Seam Sealer is a cold weld liquid available from any plumbing supply or hardware store. It can be applied with a syringe or an applicator available from Yemm & Hart.

1. When using a chemical seam sealer, seams must be cut so there are no overlaps or gaps in flooring.
2. When using applicators other than the chemical seam sealer applicator, in moist or wet environments or in conditions of high humidity, the chemical seam sealer may cause lacquer blushing (fogging).
3. In making the seam, care must be taken on fully adhered installations, to prevent any floor covering adhesive from getting between the cut edges of FLEXISURF flooring. The adhesive may prevent the seam sealer from bonding properly in the seam.
4. Observe all cautions and warnings on the seam sealer label and follow installation guidelines for seam sealer application.
5. Protect sealed seams from dirt and traffic until seam sealer has properly set.
6. Some installations may require the seam sealer to be applied inside the seam prior to adhesive setting up. Allow a gap sufficient enough to allow the seam sealer to be applied to one side of the seam. Both seams should then be butted together to form a tight joint. Use care not to apply the seam sealer in too large a quantity.
7. The chemical seam sealer may also be applied using the Professional Applicator Kit. Instructions for typical seaming methods are included with each kit. To minimize the visibility of the chemically welded seam, apply Scotch tape or masking tape over the seam prior to applying seam sealer. The tape should be centered on top of the seam along the full length of the seam. Using a razor type knife or similar cutting tool gently cut the tape down the length of the seam. Follow normal seam sealing applicator kit instructions for applying seam sealer. After the seam sealer has cured, remove and discard the tape. The seam should not have any visible signs of seam sealer on the top of the FLEXISURF seam.
8. On loose laid installations, double stick tape may be used on the underside of FLEXISURF seam prior to applying seam sealer. The tape will help prevent seam sealer from flowing under flooring and aid in keeping seam together while sealer cures.
9. Coverage – Chemical seam sealer typically will cover 800 linear feet of seam per quart or liter.
10. Use xylene to clean bottle and tip.

Note: Care should be taken when using chemical seam sealer, so as to prevent spills on FLEXISURF flooring. The seam sealer will permanently alter the FLEXISURF surface immediately upon contact. Before sealer sets-up, overflow may be removed by wiping off excess from the FLEXISURF with a clean dry cloth.

G. Heat Welding Procedures

Note: If fully adhered, the flooring should be installed a minimum of 12 hours before any grooving and heat welding is conducted.

1. Grooving of Seams: When laying floor that has to be heat welded, the seam gaps are allowed up to about 1/64" but not more than 1/32". This will permit the guides on the router to fit easily in the grooves of the seam to be welded. All seams should be grooved using either a power groover or a hand groover. The depth of the groove should be no more than half the thickness of the welding rod to be used. When using a power groover, begin and end grooving approximately 5" to 6" from any adjoining seam. Complete the seam grooving at adjoining seams with a hand groover. Cove base can be grooved using either a hand groover or a power cove base groover designed for that purpose. (When using a power groover, always check for proper alignment of guide wheels and depth of blade before beginning seam grooving.
2. Heat Welding Procedures: Weld all cross-seams first. This includes welding vertical seams on the cove base. Trim the welded seam only after the seam has cooled completely, otherwise the weld will shrink below the seam depth. Trimming may be done with a depth tool or trim plate and a quarter moon, angled knife. If desired, the installer may wish to trim the seam closer to the floor surface after initial trimming, using the quarter moon knife without the trim plate or depth tool. After the cross seams have been trimmed, the rest of the seams should be welded. After cooling, trim these seams as well, follow the above procedures for trimming.

Note: When using a heat gun, always remember to turn down or turn off the heat and allow to cool for 10 – 15 minutes before shutting off the heat gun completely. Consult heat gun manufacturer for proper procedures.

3. Heat Welding Tools and Temperatures: Several heat welding guns are available for this procedure. Welding can be done with either a Speed Tip or a Turbo Tip. The welding temperature is dependent on the skill of the installer, outside ambient temperature and the type of rod used. With a Leister Hot Air Welder, the temperature will range between 3.5 and 7. For all other heat guns, a weld test should be performed on the FLEXISURF to determine proper heat settings. The installer should practice on samples of the flooring using the appropriate heat gun and welding rod that will be used for the installation.
4. A stronger seama can be accomplished by chemical welding the seam prior to grooving and heat welding.
5. Heat Welding Tip: After final trimming, the installer may wish to sear (strike) the finish seam to blend in the weld rod to floor surface. Using a heat gun with speed tip installed, follow alongside the edges of the welded seam with the tip, being careful not to scorch the floor surface. For a Leister hot air welder, the temperature should be set at approximately 3 to 3.5. By applying heat and using pressure applied to the tip, the edges of the welded seam will blend in with the rest of the floor surface and the seam will be less conspicuous. This will also insure that the seam is well bonded to the floor.

H. Heat Welding Supplies

Vinyl Welding Rod

1. Heat welding of FLEXISURF flooring is suggested for installations involving kitchens, high traffic areas or any installation requiring a monolithic type floor.
2. The required equipment for heat welding includes a router, heat welder, trimmer knife w/ attachments and PVC welding rod
3. The following vinyl/PVC welding rods have been used for the welding of seams on FLEXISURF:

Tarkett Speed Swatch
1900 Corporate Blvd Ste 5
Newburgh NY 12550

Tel: 800-225-6500
Email: info@tarkett.com
Web: <http://www.tarkett.com>

Armstrong World Industries
2500 Columbia Ave. (17603)
P.O. Box 3001
Lancaster PA 17604

Tel: 800-232-4832 or 717-397-0611
Email: info@armstrong.com
Web: <http://www.armstrong.com>

Altro Floors North America
PO Box 361
El Dorado Springs MO 64744-0361
(80 colors, larger and bonds better than Armstrong)

Tel: 800-417-3006 or 800 565-4658
Email: info@altrofloors.com
Web: <http://www.altrofloors.com>

4. It is highly recommended that the installer practice heat welding on scrap pieces of FLEXISURF to ensure the proper temperature has been selected and also to gain experience with product application.
5. Hot Air Welding Tools & Accessories for the Professional Flooring Installer:

Columbine International Ltd.
5441 Merchant Circle
Placerville CA 95667

Tel: 800-635-6693 Fax: 530-622-2704
Email: columbine@directcon.net
Web: <http://columbineint.com/>

I. Floor Drains

Note: FLEXISURF may be installed around floor drains using several different methods based upon the installer's preference, his or her expertise and the type of drain to be used.

The drain cover may be inset into the flooring using the following procedures:

1. Dry lay floor to determine proper positioning of drain. Mark position of drain in appropriate flooring piece.
2. Cut out drain hole allowing at least ½" of flooring to float over the drain opening i.e., if the drain opening is 4" in diameter, then the opening cut in the floor should be 3-1/2" in diameter.
3. Align the cut piece of flooring over the drain hole and notch out the screw holes. This can be a simple V cut using a utility knife.
4. Spread adhesive and lay flooring into place. Apply a bead of sealant under the drain opening overlap as per step #1 above, using either epoxy adhesive, OSI Pro Stick or AltroSeal Caulk, ensuring screw holes are clear of adhesives. Roll flooring into adhesive and around drain.
5. Place drain cover in place and trace outline of drain cover onto flooring. Using either a utility knife or a router, such as a cove router or wood router, groove out the floor drain area equal to the approximate thickness of the drain cover. Again, ensure that no adhesive has gotten into the screw holes. Install drain cover with screws. Longer screws may have to be used to install drain cover when flooring is installed.

K. Additional Installation Product Suppliers

Purchasable directly from the manufacturer.

Heat Welding Tools and Accessories

Columbine International Ltd.
5441 Merchant Circle
Placerville CA 95667

Tel: 800-635-6693 Fax: 530-622-2704
Email: columbine@directcon.net
Web: <http://columbineint.com/>

E-6100 NonSlump

Industrial adhesive/sealant for cove base installation

Eclectic Products
Distributors nationwide

Tel: 800-349-4667 or 800-767-4667
Email: 37pamg@wilvaco.com
Web: <http://www.eclecticproducts.com>

1100 Fast Set

Industrial adhesive/sealant for cove base installation

Bostik
211 Boston St
Middleton MA 01949-2128

Tel: 800-726-7845 Fax: 978-750-7293
Email: info@bostik.com
Web: <http://www.bostik.com>

Nu-Floor #500

Barrier coating, covering old adhesive

W. F. Taylor
3601 US Hwy 41 S
Dalton GA 30720

Tel: 800-868-4583 or 800-397-4583
Email: sales@wftaylor.com
Web: <http://www.wftaylor.com>

Note: The performance and guarantee of the products used in preparation, testing, installation and maintenance of FLEXISURF, during and after installation, remain with the manufacturer of said product and not Yemm & Hart Ltd.

V. General Maintenance and Care

Note: FLEXISURF flooring installations should be cleaned prior to any floor finish being applied. Ensure that adhesive on adhered installations has cured completely prior to floor cleaning. A finish will reduce the overall coefficient of friction of FLEXISURF when applied.

A. Maintenance & Care Guidelines

1. Indoor matte finish FLEXISURF installations should have a finish applied except for those installations involving spike/cleat traffic, heavy-wheeled traffic or around wet areas such as swimming pools and spas.
2. If a finish is required, it should be applied as soon as possible after installation for loose lay applications. Apply finish to fully adhered installations only after allowing adhesive to set properly according to adhesive manufacturer's instructions and recommendations. Apply as many coats of finish as necessary to achieve desired finish. Allow sufficient time for thorough drying of each coat before applying additional coats (see [V.E. Finish Application](#)).
3. An indoor finish is not recommended for outdoor FLEXISURF flooring installations.
4. All finish should be applied according to the manufacturer's recommendations and instructions. Special applicators may be required. Consult manufacturer for more information.
5. A finish may be applied to grid finish FLEXISURF flooring if desired. To apply, a sprayer or a fine nap roller or a combination of both methods may have to be used.
6. A power buffer or floor scrubber may be used for cleaning and/or buffing FLEXISURF. If installation is fully adhered, ensure adhesive has cured properly prior to using buffer or floor scrubber.
7. FLEXISURF flooring with a finish should be cleaned and maintained in accordance with the finish manufacturer's recommendations and instructions (see [V.H. Cleaning Recommendations](#)). A power buffer or floor scrubber may be used on fully adhered installations. When using power equipment to clean loose laid FLEXISURF installations, care must be taken so as not to damage or break apart welded seams.
8. Indoor FLEXISURF flooring installations that do not have a finish applied may be cleaned with a low sudsing neutral floor cleaner. A nylon bristle brush or stripping pad may be used with floor scrubber or buffer (see previous section).
9. Outdoor FLEXISURF flooring installations may be cleaned with a detergent and/or floor cleaner strong enough to accomplish the task. Power scrubber, nylon bristle-brush and/or low-pressure nozzles with a power sprayer may be used for cleaning purposes.
10. Care should be exercised when moving/relocating equipment over FLEXISURF flooring installations to prevent damage to the new floor.
11. Do not scrub or strip adhered floors until at least 4 or 5 days after installation so that the FLEXISURF flooring will have become well seated in the adhesive.
12. Use of pads, wide casters/rollers and furniture/equipment cups may prevent excessive indentation.

B. Floor Finishing – Non Strippable

Hydroline Wood Floor Finish Satin 4X0310

Note: Hydroline Wood Floor Finish is NON-STRIPPABLE and the *best* floor finish for FLEXISURF, do not be confused by the occasional reference in product literature to wood.

1. Exterior, High Moisture and Abusive Traffic: A topcoat finish is not recommended in most locations with high moisture or extremely abusive traffic. Examples of these types of locations would be ice rinks, shower room floors and *all* exterior locations.
2. New Installations
 - a. Clean the floor thoroughly prior to finishing with Hydroline. Consult FLEXISURF [General Maintenance and Care](#) (also see [V.H. Cleaning Recommendations](#)) for cleaning recommendations and the use of power scrubbers.
 - b. After the surface is dry, apply 1 coat of Hydroline with the recommended Basic Coatings T-bar applicator at a rate of 700 square feet per gallon. Allow installation to dry 3 hours with good ventilation. A disposable foam paintbrush may be used for smaller applications.
 - c. If a second coat is desired, apply 2nd coat of Hydroline in the same manner.
 - d. Allow 24 hours to cure for heavy traffic.
 - e. Follow maintenance procedures on Basic Coatings Commercial Maintenance Guide or Sports Floor Maintenance Guide.
3. Existing FLEXISURF Floor with a Water-Based Urethane Finish Previously Applied
 - a. Clean/tack the floor with Squeaky Cleaner from Basic Coatings at 4 parts water to 1 part cleaner.
 - b. Abrade the floor with 120-grit screen, turning the screen over every 250 square feet and replacing the screen every 500 square feet with a new screen.
 - c. Clean/tack the floor with clear water until no dust is apparent on the substrate.
 - d. Follow procedures under New Installations paragraph b. through paragraph e. above.
4. Existing FLEXISURF Floor with an Acrylic Floor Finish Previously Applied
 - a. Strip floor with one of the following strippers; Buckeye Arriva, Butcher's Cutting Edge, S.C. Johnson's Bravo, Spartan's Rinse Free or Triple S Aries.
 - b. Rinse floor with clean water.
 - c. Strip floor a second time and rinse again. These strippers are moderate in their aggression and will not attack the color or integrity of the floor. If a stronger stripper is needed, do a test in an inconspicuous area to test for color bleed or discoloration by the strippers.
 - d. Follow procedures under New Installations paragraph a. through e. above.

Note: Basic Coatings floor finishes are not guaranteed by the manufacturer as they cannot control the floor condition or application of their products. Contact Basic Coatings for further details. The performance and guarantee of the products used in preparation, testing, installation and maintenance of FLEXISURF, during and after installation, remain with the manufacturer of said product and not Yemm & Hart Ltd.

C. Recommended Finish (from container label)

Hydroline Wood Floor Finish Satin 4X0310

Purchasable directly from the manufacturer or from Yemm & Hart:

Basic Coatings, Inc.
PO Box 677
Des Moines IA 50303

Tel: 800-441-1934
Email: info@basiccoatings.com
Web: <http://www.basiccoatings.com>

Product Description

Hydroline Wood Floor Finish is a water-based urethane finish that offers many advantages over traditional hardwood and sports floor finishes. It's proven performance makes it the ideal finish for a variety of locations. Hydroline provides durable, resistant protection for wood and sports floors while enhancing the natural beauty of the wood. Fast dry times allow floors to be put back into use in half the time required for oil-based finishes to cure.

Recommended Uses

Sports Floors - MFMA approved for gyms, exercise & aerobic floors, racquetball, handball & squash courts. Light Duty Commercial - Meeting rooms, offices. Residential - Family rooms, living rooms, bedrooms and hallways.

Typical Properties

Color in Container	Milky white (dries clear)
Solids Content	27%
Chemical Resistance	Excellent
VOC	When catalyzed (2% by volume), maximum VOC does not exceed 340 grams/liter, less water and exempt solvents
Flash Point	Greater than 200° F
Luster	Gloss: 80 units @ 60 degrees on wood Satin: 30 units @ 60 degrees on wood
Freeze/Thaw Stability	Stable for at least 5 cycles (if frozen, thaw completely before using)
Pot Life	Once catalyzed: 24 hours
Dry Time	Minimum 3 hours between coats with good conditions. Do not replace rugs for at least 2 weeks. Allow 24 hours before returning furniture or allowing regular foot traffic on floor.
Clean Up	Water
Storage	Do NOT store above 120° F (49° C)
Application Method	Basic Coatings Applicator
Coverage	Approximately 800-1000 square feet per gallon with Basic Coating's applicator, depending on conditions.
Recommended Systems	Full Sand* - 2 coats Hydroline Sealer* + 2 coats catalyzed Hydroline Recoat - 2 coats catalyzed Hydroline
Packaging	U.S. Gallon (4 per case) - 5 U.S. Gallon - 55 U.S. Gallon drum on special order

* applicable to wood floors only

D. Finish Preparation (from container label)

Hydroline Wood Floor Finish - Satin 4X0310

Surface Preparation

1. Before sanding,* clean the floor using Basic Coatings Squeaky Cleaner following the directions for the product. Cleaning should be done to remove contaminants from the floor before sanding.*
2. Measure moisture content before sanding* as a re-coat reference.
3. Sand* floors using accepted NOFMA or MFMA procedures. All old finish should be removed. A dust mask should be worn during sanding*.
4. Finish sanding with a new 120grit screen.* DO NOT USE STEEL WOOL.
5. Vacuum all dust possible and tack with a clean, dry towel. TACK UNTIL ALL DUST HAS BEEN REMOVED.
6. Apply any painted game lines after screening and cleaning (see [IV.J. Logo and Paint Recommendations](#))

Mixing 2x Catalyst

Use only Basic Coatings 2X Catalyst. Never add extra amounts of catalyst and never use catalyzed finish that is over 24 hours old. 2X Catalyst can irritate skin and eyes upon contact so wear proper protection.

1. Mix finish well before use. If using a one-gallon container, finish should be transferred into a clean, plastic pour can before mixing in the catalyst.
2. While stirring finish, slowly add 2X Catalyst to finish (one 3-ounce bottle per gallon or one 13-ounce bottle per five gallons). Continue mixing for 30 seconds after adding catalyst. Set aside for about 10 minutes to allow any bubbles to break.

Always maintain adequate ventilation during all phases of the coating and drying process.

This helps speed drying.

1. Rock the container several times before opening. Satin finishes must be thoroughly mixed.
2. Pour finish into a clean, dry plastic pour can.
3. While stirring, SLOWLY, add one 3-ounce bottle of 2X CATALYST per gallon of Hydroline (one 13-ounce bottle per five-gallon pail.) Continue mixing for 30 seconds after all the catalyst has been added.

Note: Use only 2X Catalyst. NEVER ADD EXTRA AMOUNTS OF 2X CATALYST. Never reuse catalyzed material. (Use caution: Catalyst may cause skin irritation.)

4. Set container aside for 10 minutes before using to allow any bubbles to break. Edge out about 6 inches from the baseboard with a paint pad or polyester brush. Be sure to feather the edge dry.
5. Pour a 4-inch wide line of Hydroline along one wall about 4-6 inches away from wall, the entire length of the floor. Start about one foot from the head wall and stop about three feet from the opposite wall.

* applicable to wood floors only

E. Finish Application (from container label)

Hydroline Wood Floor Finish - Satin 4X0310

6. Holding the applicator at a slight angle, drag it in a “squeegee” or “snow plow” type motion. This moves the puddle from one side of the room to the other. Brush out all turns, stops and other applicator marks, brushing in the direction of the puddle-line. Add finish to the puddle when needed to maintain a wet edge across the room.
7. Decrease the width of the puddle line around 2-3 feet before the final wall, allowing the puddle to run “dry”. Back out of the room by wetting small sections of remaining floor (squeezing out the excess finish before proceeding to prevent drips) and brushing away from you in the same direction the puddle-line was poured.
8. Apply one coat Hydroline using standard water-based application procedures. Allow a minimum of three hours dry time with good ventilation. USE A MOISTURE METER TO DETERMINE WHEN THE FLOOR IS DRY ENOUGH TO APPLY A SECOND COAT.
9. It is not necessary to screen the floor prior to applying the second topcoat unless the first coat has been allowed to dry longer than 6 hours. If necessary, screen the floor with a used 120-grit screen. DO NOT USE STEEL WOOL.
10. Vacuum up all dust possible and tack with water-dampened towels prior to applying final coat.
11. For final dust removal, tack with a clean towel lightly dampened with water. TACK THE FLOOR UNTIL ALL DUST HAS BEEN REMOVED.
12. Apply final topcoat using the same procedure.

Recoating Procedure

1. DO NOT use Hydroline over a waxed surface. If unsure, wipe the surface with a small amount of mineral spirits on a rag to see if wax is present. If any question remains, use a test patch to insure adhesion.
2. Tack the floor with a mixture of one part Squeaky Cleaner to four parts water.
3. Screen with a new 100 or 120 grit screen. Make sure all shine is screened from the floor. DO NOT USE STEEL WOOL.
4. Vacuum all dust possible, and then tack the floor with a clean water-dampened towel. TACK FLOOR UNTIL ALL DUST HAS BEEN REMOVED.
5. Apply two coats of Hydroline using the procedure described above.

Dry Time

Allow at least one hour of good ventilation before closing job site. Finish will reach full cure in approximately two weeks. The floor may be opened to light traffic after 24 hours dry time, however, it is susceptible to scuffing or marring until the finish is fully cured. Do not place carpet or rugs over finish for at least two weeks after completion of coating.

Daily Maintenance

Do not use any maintenance cleaners on floor for at least 2 weeks. Refer to special maintenance brochures for additional instructions.

F. Finish Information (from container label)

Hydroline Wood Floor Finish - Satin 4X0310

Ingredients: Water, 7732-18-5; N-Methyl-2-pyrrolidone, 872-50-4; Glycol ether DE' 111-90-0; Water-Based Urethanes and Acrylics; Contents partially Unknown. **WARNING** This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

Maximum VOC does not exceed 357 grams/liter (2.98 pounds/gallon), less water and less exempt solvents. When mixed with 2X Catalyst, as stated in FINISH APPLICATION instructions, the maximum VOC does not exceed 350 grams/liter, (2.92 pounds/gallon) less water and less exempt solvents.

4X0310 Precautions: VAPOR AND SPRAY MIST HARMFUL. MAY CAUSE DIZZINESS, HEADACH OR NAUSEA. HARMFUL IF ABSORBED THROUGH SKIN.

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain damage and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Use with adequate ventilation. Do not breath vapors or mist. Ensure fresh air entry during and after application. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep closures tight and upright to prevent leakage. Keep container closed. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

First Aid: In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin contact, wash thoroughly with soap and water. If affected by inhalation of vapor, remove to fresh air. If swallowed, get medical attention. Do NOT induce vomiting.

SEE MATERIAL SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

G. Finish Catalyst Information (from container label)

Hydroline Wood Floor Finish Catalyst 4X0302-03-99

Warning!

Combustible Liquid and Vapor

Causes severe eye Irritation

Vapor Harmful

Causes Skin Irritation

May Cause Skin Reaction

Harmful if Absorbed Through Skin

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain damage and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Keep away from heat, flame and water. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Do not breath vapors or spray mist. When spraying, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Wash thoroughly after handling. Keep closures tight and upright to prevent leakage. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

First Aid: In case of contact, immediately flush eyes and skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing and shoes before re-use. If affected by inhalation of vapor or spray mist, remove to fresh air. If case of ingestion, get medical attention. Do NOT induce vomiting.

Contains: Poly-aziridine, 64265-57-2; 2-Propoxyethanol, 2807-30-9

SEE MATERIAL SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

H. Cleaning Recommendations

1. General Care – Street shoes can be very hard on a floor, leaving behind black heel marks, dirt, salt and rocks. Protect your floor by using walk-off mats at doorways. Clean mats daily in normal weather, more frequently during severe weather. Avoid scratching the floor when moving or setting up furniture or equipment.
2. Daily Cleaning for Residential and Public Spaces – Use Hydroline Dust Mop Treatment and Maintainer to pick up dirt and dust without leaving a chemical residue. Mist the dust mop treatment directly into a dust mop. Remember to launder dirty dust mops frequently. For best results, retreat dust mops every 5-6 days, depending upon the amount of traffic on the floor. If the floors need a deeper cleaning, use Basic Coatings Squeaky Cleaner, following weekly cleaning directions. Do not use ammonia-based cleaning products.
3. Weekly Cleaning – Basic Coatings Squeaky Cleaner removes dust, dirt, oils, cosmetics, hair and dust mop treatments. This process can be used on a daily basis or more frequently if needed. Use one part Squeaky Cleaner to four parts water. Soak several large bath towels in the solution. Wring them out until damp. Wrap a damp towel around the head of a push broom and push across the floor. Clean the entire floor, changing to a clean towel when needed. Never rinse dirty towels in the clean solution. Dirty towels may be laundered and reused.
4. Spot Cleaning – To remove black heel marks, use full strength Squeaky Cleaner on a clean sponge or rag. For stubborn marks, use a clean rag dampened with full strength Basic Coatings Hydroline SpotClean. Hydro SpotClean should not be used as a regular maintenance cleaner and should not be poured directly on the floor. Use SpotClean for trouble spots.
5. For Cleaning Oily and Greasy Conditions – (see [V.I. Daily Cleaning](#) and [V.J. Deep Cleaning](#))
6. Recoat with Hydroline Wood Floor Finish as needed (usually 1-2 years)

I. Daily Cleaning - During Work Hours

Recommended Cleaning Procedures for
Commercial Kitchen/Food Prep Areas with
Oily and Greasy Conditions

Tools and Materials Needed

1. Degreaser diluted as recommended by manufacturer
2. Clean mop head (Blue cotton/rayon blend is recommended)
3. Bucket and wringer (Use hot water)
4. Nylon deck brush
5. Trigger spray bottle for spotting floors with degreaser
6. Optional (Wet Vacuum)
7. Optional (Power Scrubber)
8. Wet floor signs
9. Wet floor signs

Purpose

To remove light grease and animal fat deposits in localized areas of the kitchen, food prep and bar areas.

Frequency

As needed to maintain safety and cleanliness

Procedure

1. Broom sweep areas to be cleaned
2. Move light furniture away from area to be treated and use mop head or power swivel brush to clean under the benches and equipment.
3. Place "Wet Floor" signs in area to be cleaned.
4. Use spray bottle filled with degreaser on extremely greasy areas.
5. Agitate degreaser in those areas that were sprayed with either deck brush or power scrubber.
6. Mop degreaser onto the rest of the floor to be cleaned.
7. Agitate degreaser in these areas with either a deck brush or power scrubber.
8. Mop cleaned area with dry cotton/rayon mop head. After rinsing mop head in hot water, press wringer to remove as much water as possible.
9. Continue to rinse mop floor, rinsing mop frequently as noted in step 8.
10. Floor may also be wet vacuumed to remove excess water.

NOTE: A squeegee may be used for steps 8-10 in lieu of a mop. A flexible rubber or vinyl blade is recommended rather than the neoprene foam blade.

J. Deep Cleaning - After Hours

Recommended Cleaning Procedures for
Commercial Kitchen/Food Prep Areas with
Oily and Greasy Conditions

Tools and Materials Needed

1. Degreaser diluted as recommended by manufacturer
2. Clean mop head (Blue cotton/rayon blend is recommended)
3. Bucket and wringer (Use hot water)
4. Nylon deck brush
5. Trigger spray bottle for spotting floors with degreaser
6. Optional (Wet Vacuum)
7. Optional (Power Scrubber)
8. Optional (Squeegee)
10. Wet floor signs

Purpose

To remove grease and animal fats, black heel marks and stubborn residues from areas of the kitchen, food prep and bar areas.

Frequency

As needed to maintain safety and cleanliness or after facility hours.

Procedure

1. Broom sweep areas to be cleaned.
2. Move light furniture away from area to be treated.
3. Place "Wet Floor" signs in area to be cleaned.
4. Use spray bottle filled with degreaser on extremely greasy areas, black heel marks and stubborn residue areas.
5. Agitate degreaser in those areas that were sprayed with either deck brush or power scrubber.
6. Mop degreaser onto the rest of the floor to be cleaned.
7. Agitate degreaser in these areas with either a deck brush or power scrubber. Clean an area approximately 10' x 10'. Immediately pick up solid solution by either wet vacuum or squeegee to drain.
8. Using a wet vacuum, pick up soiled solution from floor area.
9. Alternate method – using a hose or pressure washer, rinse floor and squeegee to drain.
10. Continue the cleaning process until the entire floor area is cleaned.

K. Recommended Cleaner (from container label)

Squeaky Cleaner 4X0319

Purchasable directly from the manufacturer or from Yemm & Hart:

Basic Coatings, Inc.
PO Box 677
Des Moines IA 50303

Tel: 800-441-1934
Email: info@basiccoatings.com
Web: <http://www.basiccoatings.com>

Product Description

Basic Coatings Squeaky Cleaner is a ready to use spray formula created especially for urethane-finished hardwood floors. Squeaky Cleaner cleans your floor without leaving detergent residues.

Instructions for Use

1. Sweep or vacuum floor.
2. To spot clean, spray Squeaky Cleaner directly on a clean sponge or dry towel and wipe the surface clean.
3. To clean entire floor, spray Squeaky Cleaner on a sponge mop and damp wipe the surface.

Note: Do not pour Squeaky Cleaner directly onto the floor. Excess liquid on any floor may damage the finish. Squeaky Cleaner has been formulated to use on all urethane-finished wood and sports floors. Do not use this product with any wax-finished floors.

Storage

Squeaky Cleaner is freeze/thaw stable. If frozen, allow cleaner to thaw at room temperatures before using. Do not store above 120°F (49°C).

Maximum VOC content of this product does not exceed 3.0% by weight.

Precautions

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid prolonged contact with skin. Use only in a well ventilated area. Do not breath vapors or spray mist. Intentional misuse by deliberately concentrating and inhaling the contents of this product may be harmful. Keep container closed and upright when not in use. Dispose of any leftover material in accordance with local applicable regulations.

First Aid

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and seek medical attention. For skin, wash thoroughly with soap and water. If affected by inhalation of vapor, move to fresh air. If swallowed, seek medical attention. **DO NOT INDUCE VOMITING.**

**KEEP OUT OF REACH OF CHILDREN
WARNING! CAUSES EYE IRRITATION**

Contains: Water, 7732-18-5; 2-Propanol, 67-63-0; Glycol ether PM, 107-98

L. Additional Cleaners

Purchasable directly from the manufacturer.

Oil-Out 300-75

Used to remove oil and grease from FLEXISURF flooring.

Golden Products

17218 W 15th Pl

Golden Colorado 80401

Tel: 800-645-6881 Fax: 303-271-0408

Email: info@oilout.com

Web: <http://www.oilout.com/>

Score Citrus Cleaner and Grease Release

Used to remove oil and grease from FLEXISURF flooring in commercial kitchen areas.

Sunburst Chemicals

220 W 86th Street

Minneapolis MN 55420

Tel: 800-899-7627 Fax: 612-884-1046

Email: sunbursthq@aol.com

Web: <http://www.sunburstchemicals.com/>

Purple Rage Degreaser

Used to remove oil and grease from FLEXISURF flooring in commercial kitchen areas.

Suncoast Research Labs Inc & Co

2901 Anvil St N

St Petersburg FL 33710

Tel: 727-344-7627 Fax 727-341-0504

Email: sunclabs@gte.net

Web: N/A

M. Floor Finishes - Strippable

When a strippable finish is preferred, Yemm & Hart recommends the Taski brand of floor care products that are available from Yemm & Hart or the Taski distributor:

Able Supply

7323 Monticello

Skokie IL 60076

Tel: 847-679-0468

Fax: 847-679-7855

Email: sales@ablesupply.com

VI. Cautions and Warranty

A. Cautions

1. Flooring that contains asbestos:
 - a. Do not sand, dry scrape, beadblast or mechanically pulverize existing flooring, backing or lining felt. These products may contain asbestos fibers that are not readily identifiable. Avoid creating dust. Inhalation of asbestos dust may cause asbestosis or other serious bodily harm. Smoking greatly increases the risk of serious bodily harm.
 - b. Numerous products, devices, and techniques have been recently introduced and/or recommended for the removal of resilient floor coverings. Before utilizing any work practice for resilient floor covering removal, it should be determined if the work practice meets all applicable regulations or standards including those of the Occupational Safety and Health Administration (OSHA) for Occupational Exposure to Asbestos.

2. Adhesives containing asbestos:
 - a. Some in-place asphaltic adhesives may contain asbestos fibers that are not readily identifiable. In the removal of asphaltic "cutback" adhesives, do not use power devices that can create dust. The inhalation of asbestos dust may cause asbestosis or other serious bodily harm. Smoking greatly increases the risk of serious bodily harm. Assume that all in-place asphaltic "cutback" adhesives contain asbestos.
 - b. Numerous products, devices, and techniques have been recently introduced and/or recommended for covering and/or removal of residual asphaltic "cutback" adhesives. Before utilizing any work practice for covering or removal of residual asphaltic "cutback" adhesives, it should be determined if the work practice meets all applicable regulations or standards including those of the Occupational Safety and Health Administration (OSHA) for Occupational Exposure to Asbestos.

Caution: Certain paints may contain lead. Exposure to excessive amounts of lead dust presents a health hazard. Refer to applicable Federal, State and Local laws concerning lead paint abatement.

B. Limited Warranty

Yemm & Hart Ltd., warrants that FLEXISURF be free of manufacturing defects for a period of two (2) years. Should a defect occur in FLEXISURF to substantially restrict its function as intended, then Yemm & Hart Ltd is responsible solely to provide replacement of FLEXISURF at the sole option of Yemm & Hart Ltd. Yemm & Hart Ltd shall not be responsible for labor.

THE REMEDIES STATED HEREIN ARE THE SOLE AND EXCLUSIVE REMEDIES FOR FAILURE OF FLEXISURF. THERE ARE NO OTHER WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE; EITHER EXPRESSED OR IMPLIED, WHICH EXTEND BEYOND THE FACE HEREOF. YEMM & HART LTD ASSUMES NO LIABILITY FOR CONSEQUENTIAL, INCIDENTAL OR OTHER DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, DAMAGE TO THE BUILDING OR ITS CONTENTS)