

| 2020 edition



TOLI Luxury Vinyl Tile
General
Maintenance Guide

TOLI Corporation

Preface

Luxury Vinyl Tiles are laminated with surface layer of Luxury plain, marbling pattern or various printed design sheets (hereinafter called Tiles, containing rich resin, can create bright colors, offer comfort underfoot and chemical and abrasion resistance as well.

As it has an attractive and high-end surface design, it's adopted at varied applications like shops at department stores or supermarkets, recreation facilities and various halls, etc.

Tiles generally requires resin wax maintenance to maintain beautiful appearance.

The application of resin wax forms a coating film of resin wax on the surface of the flooring material, which protects the surface of the floorings from direct staining and makes it easier to remove any stains even if adhered.

The following explains how to properly maintain vinyl composition tiles.

This maintenance guide applies to MS PLAIN, MS FRESH, ROYAL STONE*¹⁾, ROYAL WOOD, E-CLEAN NW-

*1) For supplementary information, see separate ROYAL STONE - Maintenance Guide.

*2) The maintenance of E-CLEAN NW-EX can be done as per this Guide, although it doesn't need waxing according to the product characteristics.

Please **Note**; Maintenance is essential for long-lasting use of the vinyl floorings in beautiful appearance. Daily and Periodical Maintenance will protect your floors from being soiled, scratched or damaged.

1. Detergents, waxes, and wax removers

TOLI's recommended detergents, waxes, and wax removers are listed in Table 1.

<Table 1> TOLI Cleaner, (Antibacterial) wax, remover

Detergent			Recommended Wax	Wax Remover
Low Gloss Finish	Initial Maintenance	U-Cleaner x 1/50-1/100 diluted	T-Wax (antibacterial) 1 or 2 coats' application	-
	Surface Cleaning	U-Cleaner x 1/50-1/100 diluted	T-Wax (antibacterial) 1 or 2 coats' application	-
	Peeling-off operation	-	T-Wax (antibacterial) 1 or 2 coats' application	U-Remover x 1/5 diluted
High GFloss Finish	Initial Maintenance	FB3-Cleaner x 1/20-1/30 diluted	New FB Wax 3 coats' application	-
	Surface Cleaning	FB3-Cleaner x 1/20-1/30 diluted	New FB Wax 1-2 coats' application additional 1 coat for heavy traffic area	-
	Peeling-off operation	-	New FB Wax 3 coats' application	U-Remover x 1/25 diluted
Highly Durable Gloss Finish	Initial Maintenance	U-Cleaner x 1/50-1/100 diluted	U-Wax 3 coats' application	-
	Surface Cleaning	U-Cleaner x 1/50-1/100 diluted	U-Wax 1-2 coats' application additional 1 coat for heavy traffic area	-
	Peeling-off operation	-	U-Wax 3 coats' application	U-Remover x 1/5 diluted

***Precautions on wax maintenance of E-CLEAN NW-EX:**

- * Surface performance shall be as per the quality of the coated wax.
- * T-WAX(antibacterial) cannot be fixed on the NW-EX surface.

2. Maintenance Procedure

Maintenance is generally performed based on the fixed cycle (see attached "Maintenance Cycle").

Tiles of this category has plasticizers on surfaces at initial period of 3-6 months after installation, so sufficient maintenance should be followed as per Initial Maintenance of this Guide. After this period do the Periodical Maintenance with Surface Cleaning every 4 weeks.

NOTE :After Installation of the tile is completed, curing is required until adhesive Luxuryifies.

Maintenance during curing period or without sufficient curing, may eventually cause problems such as peeling off or peaking at joints of tiles. Take a week or more for sufficient curing.

2-1. Initial Maintenance

On the initial maintenance after installation, stains or a compounding agent (plasticizer etc.) may be found thinly on the tile surface. Then, wash thoroughly to remove these.

This allows the new coating of the resin wax to adhere well to the tile surface.

Surface Cleaning

Equipment	broom, vacuum cleaner, mop, bucket, squeegee, polisher with blue pad, wet vacuum cleaner, blower
Maintenance liquid	Cleaning liquid: U Cleaner, FB-3 Cleaner

Work procedure

- 1) Remove dust from the floor using a broom, vacuum cleaner, etc.
- 2) Make the detergent solution shown in <Table 1> at the specified dilution ratio according to the floor area to be cleaned.
- 3) Apply the detergent solution to the floor thoroughly with a dedicated mop, and allow to stand for 3 to 5 minutes.
Caution: Please note that wet floors are slippery.
- 4) Clean thoroughly with a brush or a polisher with a blue pad.
- 5) Remove dirty water immediately with squeegee or wet vacuum cleaner.
Caution: Leaving the dirty water for a long time may build up dirt again after drying, and cause the flooring material to peel off.
- 6) Wipe off any waste water left on the floor with a clean mop during the floor is wet.
Caution: Insufficient water wiping may cause uneven wax coating or poor fixing of the wax later on.
- 7) Allow the floor to dry thoroughly.

Application of resin wax

Equipment	mops, buckets, blowers
Maintenance liquid	Resin wax: T-Wax (antibacterial / acrylic resin type), U-Wax(Urethane resin type) or New FB-Wax(Acrylic urethane resin type)

Work procedure

- 1) Prepare the cleanly-washed and squeezed mop. Then take required amount of resin wax in a clean bucket.
Soak the clean mop in the resin wax, and squeeze the mop hardly so that the wax does not drip down.
The amount of wax to be applied should be as a guideline below.

Wax	Quantity for 1 coat	Applicable Quantity
New FB-Wax	10ml/m ²	approx. 600m ² /18L (Large can) 66m ² /2L (bottle) for 3 coats' application
U-Wax	13ml/m ²	approx. 450m ² /18L (Large can) 50m ² /2L (bottle) for 3 coats' application
T-Wax (antibacterial)	35ml/m ²	125 to 165m ² /5L (can) (for 1 coat)

* For durability and anti-soiling property U-Wax is recommended, while T-Wax(antibacterial) is recommended for matte finish.

- 2) Apply the wax uniformly without unevenness.
Re-application should be done after earlier wax coat dries thoroughly.
Caution:T-Wax (antibacterial) contains matte-finishing ingredients. Stir thoroughly before use.
- 3) Dry the first wax coat thoroughly and then apply a second coat if necessary.
If the undried initial coating is overcoated with the secondary wax, the initial coat may re-emulsify and decrease the strength of the film. Make sure that the initial coating is sufficiently dry before overcoating.
Whenever the mop gets dirty during application work, be sure to wash it clean.
If you continue to use dirty mop, it will spread the stain.
Caution:After T-Wax (antibacterial) is fully dry, wipe the floor area with a clean and damp mop.
Otherwise, matte-finishing ingredients may remain on the floor surface to appear as white powder by later walking abrasion. In this case, repeat damp mopping.
- 4) After wax application, allow it to dry thoroughly with the help of ventilation etc.
Though intensive and direct air blow to the waxed floor is not recommended.
Caution: Cure the coated floor and refrain from walking on until it becomes fully dry.
Walking on wax-wet floor may cause slip accident and un-erasable footprints. Also, if you carry in furniture on a wax-wet floor, the wax may act as adhesive to make the furniture glued down to the floor.
- 5) Wash the buckets and mops thoroughly with water and store them in a clean condition.

2-2. Daily Maintenance (Every Day)

The great enemy for tiles and resin-wax coats is the damage and abrasion caused by soil and sand. To minimize such risks, please use dust control mats of appropriate size at the doorways.

Sweeping / Wiping

Equipment	Sweeper, Mop, Vacuum cleaner
Mat	Dust Control Mat (doormats)

Work procedure

1) Remove dust and dirt daily with a broom, vacuum cleaner, or a tightly wrung damp mop.

Caution :Some chemical mops may yellow flooring or wax coat. Please check with the mop manufacturer before use.

2) Periodically remove the accumulated dust and soil from the doormats.

If dirty doormats are used with dust or soil accumulation, such dirt may eventually be brought indoors, causing damage and staining of the floor indoors.

2-3. Periodic Maintenance (weekly to monthly)

When un-removable dirt or the damage on the coating becomes outstanding on the whole area, it's required to use detergent to clean the entire floor surface. After cleaning, apply 1-2 coats of resin wax.

For cleaning and application of wax, water washing is necessary. So such area needs to be kept off, otherwise such work should be done on closed days of the facility.

Surface Cleaning (Once / 4weeks)

If the floor begins to get dirty in a short period of time, it's necessary to perform the Surface Cleaning accordingly, with the more frequency as required e.g. once/ 3 weeks.

Basically the method is the same as Surface Cleaning of 2-1 Initial Maintenance.

Work procedure

1) Basically, it is the same as surface cleaning performed in "2-1. Initial Maintenance".

Combination of Wax and Detergent by TOLI

Detergent(cleaner)	Wax
FB-3 Cleaner	New FB-Wax
U-Cleaner	U-Wax, T-Wax(antibacterial)

2) Apply 1 or 2 coats of resin wax, depending on the degree of wear of wax coat.

Spray & Polish Maintenance

This maintenance is performed when the floor becomes partly dirty before Surface Cleaning of whole floor.

Equipment	High-speed buffing machine, red pad(attachment), spray bottle
Maintenance liquid	Spray; New FB-Wax

* This spray & Polish Maintenance cannot be applied on T-Wax finished floor.

Work procedure

1) Remove dust from the floor using a damp mop etc.

2) Dilute New FB Wax or U-Wax at the ratio in Table 1, and fill in the spray bottle.

3) Spray the liquid on the limited soiled area each of approx. 1 m².

Spray & Polish liquids available at DIY shops are also applicable .

4) Operate the high-speed polisher with red pad attachment on the sprayed area until the sprayed liquid dries up. Buffed residue should be vacuumed, if any.

5) Clean the floor with a damp cloth and apply one coat of wax, if necessary for uniform finish of whole floor.

* In case high-speed polisher is not available at hand, the following Spray Cleaning will do.

Spray Cleaning

If dirt is trapped inside the wax layer and cannot be easily removed by Spray & Polish Maintenance, this Spray Cleaning should be adopted. As detergent is sprayed for cleaning the floor, such floor area needs water washing later on.

Equipment	Polishing machine with blue pad, spray bottle, mop, bucket
Maintenance liquid	Spray; FB-3 Cleaner or U-Cleaner Wax(resin); New FB-Wax or U-Wax

* This Spray Cleaning cannot be adapted on T-Wax finished floor.

Work procedure

1) Remove dust from the floor using a damp mop etc.

2) Spray the maintenance liquid on the limited soiled area of approx. 1 m².

Dilute FB-3 Cleaner or U-Cleaner for cleaning the floor waxed with New FB-Wax or U-Wax respectively, at the ratio in Table 1,

and fill in the spray bottle.

Spray & Polish liquids available at DIY shops are also applicable .

3) Operate the polishing machine with blue pad on the sprayed area until the sprayed liquid dries up.

4) Wipe off the detergent thoroughly with a damp cloth.

Please note that detergent residue would cause un-uniform and insufficient fix of wax coat.

5) Dry the floor sufficiently.

6) Apply 1-2 coats of resin wax, in accordance to 2-1 Initial Maintenance/ Application of resin wax.

2-4. Annual maintenance (Once / six months to one year)

If the stain is caught not only on the surface but also inside of wax layer and surface cleaning does not work well, or if the wax has become yellowish or powdery, it's necessary to peel off the entire wax layer and to re-apply the wax.

[Peeling-off operation]

Equipment	broom, vacuum cleaner, mop, bucket, squeegee, polisher with black or brown pad, wet vacuum cleaner, blower
Maintenance liquid	Wax remover: U Remover

Work procedure

1) Remove dust from the floor using a broom, vacuum cleaner, etc.

2) Make the wax remover solution according to the wax-coated area to be removed. Refer to Table 1 for the dilution ratio.

* U-Remover can be used as wax remover of New FB-Wax, U-Wax and T-Wax(antibacterial).

3) Apply the wax remover liquid evenly to the floor surface with a dedicated mop and leave it for 10 mins. or longer.

Scrub off the wax coat and clean floor surface thoroughly with a brush or a polisher with a black or brown pad.

Caution: The remover liquid should not get splashed on furniture or penetrated under the furniture legs.

The wax ingredient eluted by the remover liquid may act as an adhesive to adhere the furniture to the floor.

In addition, if wax removal is incomplete, the floor will not be uniformly finished after new application of wax.

4) Dirty water should be removed immediately with squeegee or wet vacuum cleaner.

Caution: If you leave the dirty water for hours, floor surface will dry and the dirt will re-attach.

5) Remove the dirty water perfectly with clean mop before the water dries up.

Caution: If this mopping is not thoroughly done, new wax layer may be discolored or easily peeled off.

6) Dry up the flooring with ventilation and clean mopping.

Caution: The surface of flooring, after stripping off the wax coat, will be very sensitive to dirt.

Pay attention not to stain the floor while walking on.

7) Reapply the wax according to above 2-1. Initial Maintenance method.

Should you have any questions, please contact TOLI sales rep.