



**LIFE**  <sup>®</sup>  
**FLOOR**  
Owner's Manual

# THANK YOU

## FOR PURCHASING LIFE FLOOR

Please refer to this manual for Life Floor’s recommended cleaning process, tile maintenance/replacement, and FAQ. If you have further questions or concerns about caring for your installation, please contact our team at [solutions@lifefloor.com](mailto:solutions@lifefloor.com).

### TABLE OF CONTENTS

Protecting Life Floor	3
Cleaning Life Floor	4
Sample Cleaning Schedule	5
Storing Life Floor	6
Replacing Life Floor	7
Water Quality Guidelines	8-9
Warranty Process	10
Material Safety Data Sheet	11-13
Contact Information	14
Terms and Conditions	15-16

# PROTECTING LIFE FLOOR

Life Floor offers many advantages and safety benefits unavailable with other aquatic safety surfacing solutions and is subsequently cared for differently. The purpose of this Owner's Manual is to provide information about Life Floor maintenance, care, and limitations. Failure to follow these guidelines may result in damaged Life Floor tiles and a voiding of your Life Floor warranty. We recommend clients ensure they always have an attic stock of replacement tiles on hand and check prior to season opening so they have enough time to order more if necessary.

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## Routine Maintenance

Areas exposed to only barefoot traffic can be cleaned on an as-needed basis with Life Floor Easy Maintenance Cleaners. For areas exposed to shoe traffic, Life Floor should be cleaned at least once a week. A standard cleaning schedule can be found on page 5 of this manual. When cleaning Life Floor, use a cloth, sponge, a light or medium scrubbing machine with vacuum recovery, or non-metallic brushes. Mops can be used, but are least effective. Stiff brushes or brushes that contain abrasives may damage Life Floor. Do not use metal brushes or grit-coated, aggressive brushes of any kind on the tile surface.

## Cleaning Solutions

We recommend Life Floor Easy Maintenance Cleaners sold by our Installation Partner, Inside Edge ([www.safetysurfaces.com/shop](http://www.safetysurfaces.com/shop)). Effective alternatives include bacteria killing agents such as hydrogen peroxide, bleach, ammonia or citrus cleaners. Do not use any type of sealer or wax product, as these will coat the tile surface with a slippery residue.

## Preventative Maintenance

Life Floor tiles are durable and designed to withstand high volumes of barefoot traffic. However, Life Floor tiles may be scratched or cut by sharp, heavy, or abrasive objects. Should a tile become damaged, replacement is generally easy, but force will be required to remove an adhered tile. We recommend the use of plastic or natural bristle scrub brushes to clean the tile surfaces. We also recommend the use of plastic or wood furniture instead of heavy, metal furniture. Deck furniture should have wide and flat feet, or broad furniture coasters secured to the bottom of deck furniture feet. If mechanical lifts or heavy objects are to be transported or placed on top of Life Floor, it may be necessary to protect the tiles with plywood or Masonite. Do not allow burning or extremely hot objects such as fireworks to come into contact with Life Floor.

## Non-Warranty Conditions

3/8" Life Floor tiles in normal traffic and UV conditions are warrantied for five years. For further details, see terms and conditions of sale. The following is a non-exhaustive list of conditions for which Life Floor tiles are not warrantied: high heel damage, caustic pool conditions, contact with sharp objects such as knives, scissors, metal edges, contact with hot objects such as, sparks, cigarettes, hot liquids, contact with heavy machinery, and/or prolonged contact with hazardous chemicals (e.g. solvents or acids).

# CLEANING LIFE FLOOR

Cleaning processes and schedules are dependent on many factors including but not limited to: the type of facility, amount of daily foot and shoe traffic, local water quality, pool chemistry, and exposure to food and sunscreen. You may adjust the cleaning schedule below based on the characteristics of your facility.

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## Recommended Cleaners

We recommend a full line of cleaning supplies that are designed specifically for Life Floor tiles sold separately through our Installation Partner, Inside Edge ([www.safetysurfaces.com/shop](http://www.safetysurfaces.com/shop)). Life Floor Cleaners include: Peroxide Cleaner, Degreaser Cleaner, and Mineral Deposit Remover.

### Peroxide Cleaner

Removes dirt, grime, and all types of organic matter.

### Degreaser Cleaner

Removes oil and grease stains from food, feet, and sunscreen.

### Mineral Deposit Remover

Removes calcium, rust stains, lime, magnesium, and aluminum oxide.

Each application will require the use of different cleaners. Bathrooms, showers, and locker rooms need to be cleaned more frequently with Peroxide Cleaner. Mineral Deposit Remover should be used on any application where deposits are visible. Areas exposed to heavy traffic, food, and sunscreen should be cleaned regularly with Degreaser Cleaner.

## Cleaning Process

### Step 1: Apply

Apply the cleaner with a mop, pump-up sprayer, or spray-foamer (Mineral Deposit Remover should not be sprayed). If you are using an auto scrubber, make the first pass with the vacuum turned off. After applying the cleaner, let the cleaner sit for minimum 2 minutes on the surface. Do not allow the cleaner to dry; mist with water if cleaner does start to dry.

### Step 2: Agitate

After the cleaner has had time to break down and loosen any dirt and oils, scrub the floor. We **do not** recommend power-washing since it can damage Life Floor if done incorrectly. We **do** recommend polyurethane medium-softness bristles to get into the relief of the tiles and pick up dirt. We do not suggest mops since they are not very effective. **Do not** use metal-bristled scrubbers since they will damage the floor. Additionally, Life Floor may be damaged if brushes are too stiff or if the floor is dry.

### Step 3: Recover

Begin recovery immediately after agitating the cleaners. A wet vacuum is the most effective recovery method, as vacuuming will also pull dirt and water from between the tiles. If you do not have access to a wet vacuum, use a hose to rinse the area and a foam blade squeegee to push dirty water into a nearby drain.

# SAMPLE CLEANING SCHEDULE

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**Week 1:** Degreaser Cleaner + Peroxide Cleaner

**Week 2:** Degreaser Cleaner + Peroxide Cleaner

**Week 3:** Peroxide Cleaner

**Week 4:** Degreaser Cleaner + Peroxide Cleaner

**Week 5:** Degreaser Cleaner + Peroxide Cleaner

**Week 6:** Peroxide Cleaner

**Week 7:** Degreaser Cleaner + Peroxide Cleaner

**Week 8:** Degreaser Cleaner + Peroxide Cleaner

**Week 9:** Mineral Deposit Remover\*

( Repeat )

\*Use Mineral Deposit Remover wherever mineral deposits can be seen on the tile.

Life Floor's Mineral Deposit Remover (MDR) is specially formulated to remove the unsightly white residue that can form around puddles and on joints on a pool deck. Unlike the other Life Floor cleaners, which are typically applied over a wide area or entire pool deck at the same time on a consistent schedule, the MDR is a spot cleaner that we recommend using when it is needed.

When using the MDR, prepare a solution of equal parts cleaner and water in a squeeze bottle. **Do not** use any type of mister, pump sprayer, or any other tool that will aerosolize the cleaning solution. Apply the cleaning solution on the affected area and begin agitating **immediately** with a deck brush to help separate the deposits from the tiles. **Do not** allow the cleaner to dry on the floor. Rinse the area thoroughly and begin recovery.

A wet vacuum is the most effective recovery method, as vacuuming will also pull dirt and water from between the tiles. If you do not have access to a wet vacuum, use a hose to rinse the area and a foam blade squeegee to push dirty water into a nearby drain. We **do not** recommend the use of a mop for recovery, as this is the least effective method.

We recommend you follow up any MDR treatment **immediately** with a normal degreaser cleaning to remove any lingering films or residue.

# STORING LIFE FLOOR

Due to Life Floor's unique formula, we have instructions for how to properly store our product so that it does not get damaged or lose its form. Please follow these tips to ensure your replacement tiles and/or extra tiles in storage are cared for as well as your beautiful Life Floor installation on your application!

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## **Keep Life Floor tiles flat so that pressure is not placed on any of the edges of tiles.**

For long term storage (longer than 2 weeks) this is critical if you have a shape of tile that is not a square (e.g. triangle, diamond, hexagon, inlay, etc.) since corners can deform and squish when bearing weight. Similarly, flat edges of the tile can roll over time when bearing weight and can deform the tile.

## **Store Life Floor tiles in a dry, protected space with a tarp over them or in their Buffalo Boxes.**

Life Floor performs best when clean and an accumulation of dust and debris can make replacement cumbersome since the smooth application side of the tile must be clean before application of adhesive. Additionally, this debris can damage Life Floor if sticks or rocks get between tiles and slide around, they may tear the tile or imprint. Most imprints will bounce back to their original form, but it may not always occur. If left in elements outdoors, tiles can become damaged by hail, foreign objects, or human error. While Life Floor tiles are impervious, the boxes are not. Failure to keep them covered and out of wet/too sunny environments may cause the cardboard to rot/disintegrate which would then need to be cleaned off the tiles, which can add to the cost of labor as well as the time involved in replacing tiles or installing for the first time.

## **Store Life Floor tiles in a secure area to prevent theft and damage.**

Do not store anything on top of Life Floor which might dent or pierce the tiles. Do not store around corrosive or dangerous chemicals that might leak and potentially damage the tiles. Keep sharp and heavy objects away from the tiles. Ideally, Life Floor should be kept in a temperature-controlled environment, so they do not shrink from cold or expand in the heat before they are installed.

# REPLACING LIFE FLOOR

Due to Life Floor's modular tile design, replacing Life Floor tiles is made easy by only needing to replace the damaged tiles instead of the entire installation. If you wish to replace tiles yourself, please follow the procedure below. If you would prefer to have a professional replacement, please contact us at [solutions@lifefloor.com](mailto:solutions@lifefloor.com).

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## Tools

Razor scraper or putty knife

Measuring tape

Utility knife

Waterproof contact cement\* adhesive

1 Gallon of adhesive can install approximately 65 sq. ft. (1 Liter of adhesive = 1.6 sq. m.)

Paintbrush or paint roller

Floor roller

## Replacement Process

**Step 1:** Remove the damaged tile(s) by cutting an X into the middle of the damaged tile and prying up from the middle with a razor scraper or putty knife. Pull the tile away from the floor substrate until completely free. Be careful not to damage other tiles.

**Step 2:** Scrape and remove any leftover adhesive from the substrate surface with a putty knife or a 4-inch razor scraper.

**Step 3:** After removing leftover adhesive, measure and (with a utility knife) cut a new Life Floor tile to the size of the replacement area. **Do not cut Life Floor tiles on top of other Life Floor tiles.**

**Step 4:** Adhere tile to the substrate using waterproof contact cement. With a general paintbrush, evenly apply adhesive to the back of the replacement tile and to the substrate. Let both surfaces cure for approximately 10-15 minutes until the adhesive is tacky or slightly dry to the touch (see adhesive label for curing times). Begin laying down the replacement tile by aligning the new tile edge with the surrounding tile edges. Ensure each corner and edge are secure by applying pressure with your thumb and index finger. To ensure adhesive is secured to the substrate, use a floor roller to apply pressure to the entire tile area.

\*We recommend using **Weldwood DAP Original** which can be sourced from most local and big box hardware stores in the US. Maintains a robust bond while being extremely workable making it a good option for the less experienced installer. Make sure to use the **ORIGINAL** formula. Other varieties will not work in an aquatic environment.

Other Commercial Grade Contact Cements (can be sourced at most flooring supply centers):

W.F. Taylor 1-N (C- California compliant)

Powerhold 500

Parabond M-250

Capitol CC028

( SDS for these adhesives can be found on the Life Floor website under Technical Documents )

# WATER QUALITY GUIDELINES

Life Floor tiles are designed for aquatic environments. This includes resistance to pool water and the chemicals used to balance and sanitize it. To ensure tiles last in all aquatic environments through the life of the installation, it is crucial to understand the impact of pool water chemistry on the tile's appearance.

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There have been instances in applications with Life Floor installed underwater or constantly flooded with water, where the color has appeared to fade. This can be exacerbated when the tiles are allowed to dry. This condition is caused by extreme conditions due to the pool water chemistry.

Proper water chemistry utilizes oxidation in controlled amounts to sanitize the pool water and to balance the water so that it is not in a corrosive or scaling state. When the water chemistry is off, it can lead to excessive oxidation, corrosiveness, or both.

## **There are common causes of high oxidation or corrosiveness of pool water:**

- Free Chlorine too high potentially causes high oxidation.
- Combined Chlorine too high potentially causes a corrosive state.
- Low pH causes high levels of hypochlorous acid (HOCL) which potentially causes high oxidation.
- Total Alkalinity too low potentially causes a corrosive state.
- Calcium Hardness too low potentially causes a corrosive state.
- LSI too low indicates a potentially corrosive state.

To reduce the risk of Life Floor tiles fading, Life Floor recommends the water chemistry be managed within the recommended limits, and as close to the ideal as possible, set by ANSI/APSP/ICC-11 2019 and your local health codes.

The table on the following page presents target ranges for important water chemistry parameters. These guidelines were last revised in November 2018 and are generally accepted by professionals in the pool and spa (hot tub) market.



# WATER QUALITY GUIDELINES

## Pool and Hot Tub Alliance (PHTA) Guidelines for Chemical Operational Parameters

The following table does not include complete PHTA guideline information and should only be used to minimize Life Floor tile fading. It is not intended for pool water management. Pool operators must comply with applicable health codes.

	Minimum	Maximum	Ideal	Notes
<b>Free Chlorine, ppm</b>	1.0	4.0	1.0-4.0	Pools
	2.0	4.0	2.0-4.0	Pools using Cyanuric Acid in excess of 50 ppm
	2.0	5.0	2.0-5.0	Spas
	3.0	5.0	3.0-5.0	Spas using Cyanuric Acid in excess of 50 ppm
<b>Combined Chlorine, ppm</b>		0.4	0	Pools and Spas
<b>Total Bromine, ppm</b>	2.0	See Product Label	2.0-4.0	Pools
	4.0	See Product Label	4.0-6.0	Spas
<b>PHMB, ppm</b>	30	50		Pools and Spas
<b>Ozone, ppm</b>		0.1		Pools and Spas
<b>pH</b>	7.2	7.8	7.4-7.6	Pools and Spas
<b>Total Alkallinity, ppm as CaCO<sub>3</sub></b>	60	180	80-100	Pools and Spas using calcium hypochlorite, lithium hypochlorite, and sodium hypochlorite
	60	180	100-120	Pools and Spas using sodium dichlor, trichlor, chlorine gas, and bromine compounds
<b>Total Dissolved Solids, ppm</b>		1500 ppm above the concentration at start up		Pools and Spas
<b>Calcium Hardness</b>	150	1000	200-400	Pools
	100	800	150-250	Spas
<b>Cyanuric Acid, ppm (When Used)</b>		100	30-50	Pools and Spas
<b>Langalier Saturation Index</b>	-0.3	0.5		Pools and Spas

# WARRANTY PROCESS

If you need to submit a claim that falls under our warranty coverage, please follow the process below and we will help you repair your installation.

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## **Step 1: Contact Us**

Contact information is listed on page 12 of this manual for both sales representatives and our main office.

## **Step 2: Inform a representative of your claim**

From here, we will evaluate your claim. We may ask for pictures or a site visit to determine the full extent of the damage.

## **Step 3: Updates to your claim**

We will process your claim and update you throughout the process. Due to Life Floor's 8 week lead time, there may be some waiting time involved before we can get you replacement tiles if it is not a tile in a popular color. If you have a rush order, we may be able to accommodate this special request, but please be aware we may suggest a complimentary color or alternative based on the stock we have available.

## **Step 4: Installation**

Once you receive your replacement tiles, there are a few options for installation. Please discuss these options with your representative to determine the best option with you since they vary based on size and complexity.

## **Step 5: Follow-Up**

We will follow-up with you to determine how the replacement is performing with periodic follow-ups after that. If you have any issues before you hear from us, please contact us immediately so we can assist you.

**Thank you for your business and collaboration with Life Floor.**

**We hope that we can continue to serve you and make your facilities safer.**

# SAFETY DATA SHEET

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## Section 1, Identification

Product Name:

Life Floor tile – All thicknesses, colors and shapes.

Manufacturer

Life Floor

Address

2010 E Hennepin Ave, #8

Building 8, Suite 206

Minneapolis, MN 55413

+01 (612) 567-2813

Emergency Contact

Engineering Department

+01 (612) 567-2813

Recommended Use

Aquatic Safety Surfacing

## Section 2, Hazard Identification

In the event of fire, decomposition products may include acrolein, other aldehydes, carbon monoxide and carbon dioxide.

May generate static electricity.

## Section 3, Composition / Ingredient Information

Exempt: This product is considered an article according to 29 CFR, hazardous communication – 1910.1200(b)(6)(v).

While this material is not classified as hazardous under OSHA regulations, this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of the product.

## Section 4, First Aid Measures

Inhalation: No hazard in normal use

Skin Contact: No hazard in normal use

Eye Contact: Wash with water

Ingestion: Wash with water and seek medical advice

## Section 5, Fire Fighting Measures

Water spray recommended. Other extinguishing agents may be used.

Decomposition products may include acrolein, other aldehydes, carbon monoxide and carbon dioxide.

This product supports combustion and may continue to burn after removal from source.

# SAFETY DATA SHEET

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## Section 6, Accidental Release Measures

Not Applicable

## Section 7, Handling and Storage

Handling

Provision should be made for sufficient ventilation and local exhaust where dust and/or fumes may be produced. Measures must be taken to avoid static buildup and discharge where dust is produced. Equipment used should be bonded electrically to earth and equipped with static control measures.

Storage

Store in a dry, well ventilated location, away from direct sunlight, at temperatures below 120°F.

Keep away from strong oxidizing agents.

Store in a dry, well ventilated location at the same temperature as the area where it is to be installed for at least 24 hours prior to beginning the installation.

## Section 8, Exposure Controls / Personal Protection

No special precautions are necessary in normal use.

## Section 9, Physical and Chemical Properties

Physical state:	Solid
Appearance:	Foam
Color:	Varies according to product
Odor:	Faint to mild hydrocarbon and/or ammonia
Flammability:	Nonflammable
Explosive Properties:	No Data
Melting Point:	85°C
Boiling Point:	No Data
Decomposition Temperature:	No Data
Vapor Pressure:	No Data
Density g/cm <sup>3</sup> :	0.16-0.19
Solubility in Water:	Insoluble
pH:	Not Applicable

## Section 10, Stability and Reactivity

Stability:	Stable under normal conditions
Materials to avoid:	Strong oxidizers, acid and alkali
Conditions to avoid:	Open flame, other sources of ignition and high temperatures

# SAFETY DATA SHEET

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## Section 11, Toxicological Information

No toxic effects are known under normal use.

## Section 12, Ecological Information

No ecological effects are known under normal use.

## Section 13, Disposal Considerations

Dispose of according to local regulations.

## Section 14, Transportation Information

Proper shipping name: Soft Tile

Material is classified as non-hazardous

## Section 15, Regulatory Information

None

## Section 16, Other Information

More information about Life Floor products can be found on our website, [lifefloor.com](https://lifefloor.com)

Email: [solutions@lifefloor.com](mailto:solutions@lifefloor.com)

Phone: +1 (612) 567-2813

Revision date: 6/26/2020

# CONTACT INFORMATION

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## **MAIN OFFICE:**

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Phone: 612-567-2813

Website: [www.lifefloor.com](http://www.lifefloor.com)

## **SALES REPRESENTATIVE CONTACTS:**

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Jeff Ruehle

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Phone: +1 651-278-1189

**For all other regions not listed above, please contact our main office.**

Has Life Floor improved your facility? We'd love to hear from you and feature your facility!

**LinkedIn:** [www.linkedin.com/company/life-floor](http://www.linkedin.com/company/life-floor)

**Facebook:** [www.facebook.com/LifeFloor](http://www.facebook.com/LifeFloor)

**Instagram:** [www.instagram.com/life.floor](http://www.instagram.com/life.floor)

**Twitter:** [www.twitter.com/life\\_floor](http://www.twitter.com/life_floor)

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