



Jonite®

## CLEANING & MAINTENANCE GUIDE

---

### **PLEASE READ BEFORE INSTALLATION**

ALL GOODS DELIVERED WILL NOT BE WARRANTED IF DAMAGED DUE TO NEGLIGENCE OF INSTALLER STATED IN THIS GUIDE.

## Table of Contents



<b>01</b>		<b>03</b>		<b>05</b>	
<b>PRE-INSTALLATION &amp; AVOIDANCES</b>	<b>2</b>	<b>GENERAL CARE &amp; MAINTENANCE</b>	<b>3</b>	<b>MISCELLANEOUS INFORMATION</b>	<b>12</b>
Pre-Installation Checklist	2	Important Advice	3	General Installation	12
Avoidances	2	Grate Cleaning	4		
		Cleaning Recommendations	5		
		Inspections	6		
<b>02</b>		<b>04</b>			
<b>STORAGE &amp; HANDLING</b>	<b>2</b>	<b>MAINTENANCE ACCESSORIES</b>	<b>7</b>		
Storage	2	Overview	7		
Handling	2	Repair Kit	8		
		SealFix™ 103	9		
		ArmourFix™ 108	10		
		Kleansol™ 511	11		

## PRE-INSTALLATION CHECKLIST

1. Upon delivery, ensure that the products are in good condition. Jonite is not responsible for the installation of a damaged product.
2. Ensure that the installation site is cleaned and prepared before installing any product.
3. It is important to read the recommended installation guide to ensure proper installation.

## AVOIDANCES

- Never let grates come into contact with heavy cleaning chemicals.
  - Never let grates come into contact with cement.
  - Never use the grates as structural elements.
- 

## STORAGE

- If stored for prolonged periods on-site before use or installation, it is advised to keep them in a shelter, away from sunlight and rain.
- Grates should be stored on clean and dry solid ground, away from possible site damage.
- When stacking grates, ensure that the top stack does not exceed 1 ton in weight and no debris between the gaps or grate slots.
- Avoid contact between construction debris, masonry, dirt, gravel and organic material during and after construction.



### WARNING

**Jonite Grates are heavy and may cause severe injury or death if not stored properly. It is recommended that all grates are secured properly during storage to ensure a safe working environment.**

## HANDLING

- Use lifting hooks provided for lifting high-performance grates which are heavy.
- Care should be taken when lifting and moving grates, especially large ones. Grates should not be dropped, thrown or dragged, as this may cause damage.

## IMPORTANT ADVICE

### Heavy Chemicals

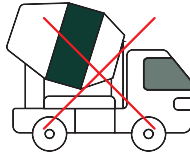
---



Avoid cleaning agents with acidic components or heavy chemicals as they may cause etching damage to the grate's surface. Should the product be accidentally exposed to the chemicals, rinse immediately with clean water to neutralise the effect.

### Cement

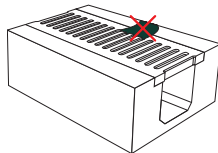
---



Keep grates away from cement. If the grates come into contact with wet cement, wash immediately before the cement dries and settles in.

### Chemical Washing

---

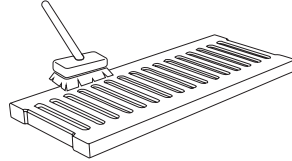
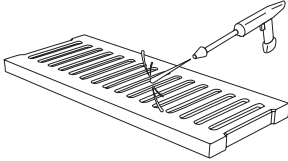


It is not advisable to wash the flooring with chemicals and allow the waste to flow through the grates, which will cause damage to the product. If chemical washing is required, such as floor cleaning, follow the instructions below:

1. Remove the gratings accordingly and systematically to prevent confusion by stacking them on raised timbers or bricks.
2. Place them back accordingly only when the washing process has been completed and dried.
3. Ensure the surrounding area where the grates would be placed back is thoroughly cleaned.

## GRATE CLEANING

Dislodge general dirt and grime by washing off with a high-pressure water jet spray. Use mild soap or neutral pH detergent for stubborn dirt, clean water, and a non-metal scrub brush.



### Guideline for Stain Removal

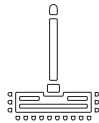
---

- Clean the grates with a high-pressure water jet spray.
- Dry the area thoroughly with a soft cloth.
- For routine cleaning, use a neutral detergent.
- For stubborn stains, use Kleansol™ 511. After applying Kleansol™ 511, ensure that the grate is dry and apply Armourfix™ 108 to protect the surface.

### Dos & Don'ts

---

**Do** clear dust and debris on grates frequently.



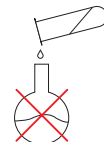
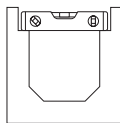
**Do not** use cleaners with acidic components such as vinegar, lemon juice and bathroom cleaners.

**Do** clean surfaces with neutral cleaners, rinse and dry surfaces periodically.



**Do not** use abrasive cleaners such as powdered cleansers or steel wool on the grate surfaces.

**Do** make sure drain shoulders are clear of debris to maintain flatness when placing the grates.

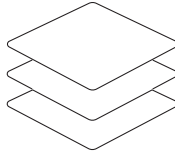


**Do not** mix cleaning components as they may form a toxic or lethal chemical reaction.

## CLEANING RECOMMENDATIONS

### External Flooring

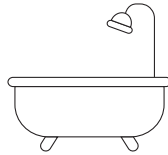
---



- Water jet spray the grates. Small stones may cause grates to chip if they are caught within the grate slots, and external pressure is applied.
- It is recommended to conduct periodic washing with clean water and neutral (pH 7) cleaners.
- Soapless cleaners are preferable because they minimise streaks and film. Liquid dishwashing soaps or power/stone soaps are acceptable if rinsing is thorough.

### Bathroom

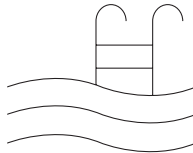
---



- Using a squeegee can help reduce the appearance of soap scum.
- To remove soap scum, use neutral detergents to clean the grating's surfaces.

### Pool

---



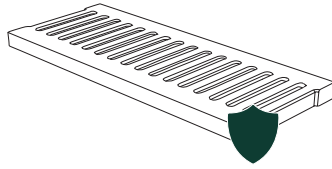
- Periodically flush with clear water and water jet with scrubbing, if necessary, to remove algae or moss.

## INSPECTIONS

Regular visual checks of the grates are recommended. Frequency is dependent on local conditions and environment and usage but should be periodically checked. Inspections should cover the following:

### Grate Integrity

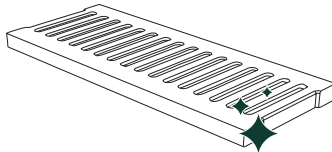
---



- Ensure that the grates are not structurally compromised and that there are no visible cracks that could lead to accidents.

### Cleanliness

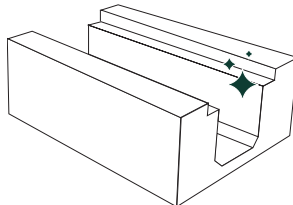
---



- Ensure that the grates are clean and free of dirt and grime.

### Supporting Areas

---



- Checks for any debris collected on supporting areas. It is recommended to keep supporting areas clean from debris to avoid unevenness when gratings are placed.

## OVERVIEW

### Repair Kit

---

For minor chips or cracks due to mishandling, our handy Repair Kit, a proprietary epoxy putty filler, can help make needed repairs easily. It comes pre-mixed in standard or custom colours as required.



### SealFix™ 103

---

SealFix™ 103 is a two-part epoxy mortar specially formulated for fixing Jonite components such as L-Trimmers™. It has high strength bonding, is impermeable, chemical-resistant and suitable for 'dry-fixing'.



### ArmourFix™ 108

---

All Jonite products are impregnated with a coat of ArmourFix™ 108, a clear stone sealer. It has very high compressive strength, remarkable cohesion, superior hardness and high wear resistance.



### Kleansol™ 511

---

Kleansol™ 511 is a proprietary algae and stain removal solution specially formulated for Jonite products which might be badly soiled due to mishandling or accidents.



### Lifting Hooks

---

The heaviest Jonite grates are designed to weigh less than 50kg, requiring a maximum of two people to lift. We recommend using these hooks for lifting heavy-duty grates.





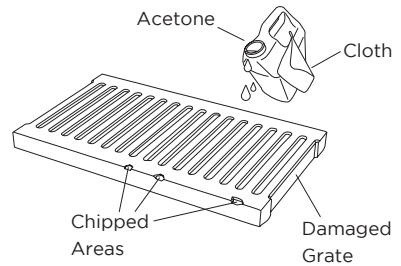
## REPAIR KIT



For minor chips or cracks due to mishandling, our handy Repair Kit, a proprietary epoxy putty filler, can help make needed repairs easily. It comes pre-mixed in standard or custom colours as required.

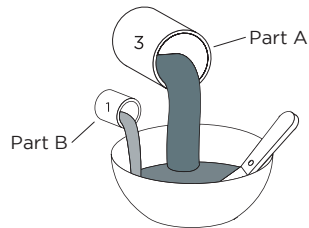
### 1 Preparation

Clean and remove dust, rust, oil, wax, paint or any substance that may inhibit the adhesion of the Repair Kit to the substrate. It is recommended that acetone or a similar solvent be used along with a cloth to remove substances. Ensure that the grate's surface is completely dry so that the Repair Kit can be properly applied.



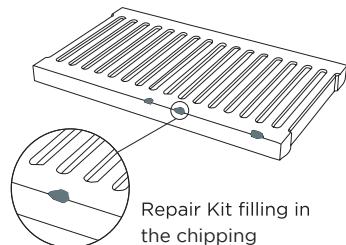
### 2 Mixing

Thoroughly mix **3 parts of A** and **1 part of B** of the Repair Kit in a clean container until a homogenous colour is obtained. It is recommended that a mechanical mixer be used for a larger mix.



### 3 Application

Use a proper tool or equipment, such as a putty knife, to apply the mix onto the affected area or substrate. It is recommended that safety gloves be worn during the application for personal protection. The Repair Kit is mainly used to fill in gaps and cracks but can also fix large chips.



## SEALFIX™ 103

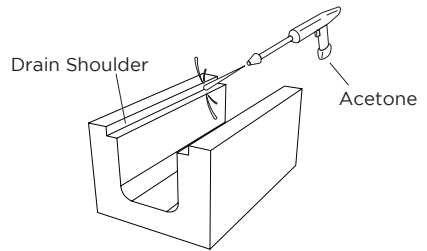


SealFix™ 103 is a two-part epoxy mortar specially formulated for fixing Jonite components such as L-Trimmers™. It has high strength bonding, is impermeable, chemical-resistant and suitable for 'dry-fixing'.

1

### Preparation

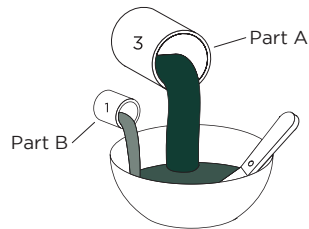
Clean and remove dust, rust, oil, wax, paint or any substance that may inhibit the adhesion of Sealfix™ 103 to the substrate. It is recommended that a water jet spray be used to remove substances. Ensure that the surface of the grate is completely dry so that Sealfix™ 103 can be properly applied.



2

### Mixing

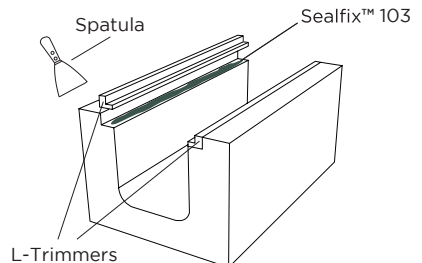
Thoroughly mix **3 parts of A** and **1 part of B** of Sealfix™ 103 in a clean container until a homogenous colour is obtained. It is recommended that a mechanical mixer be used for a larger mix.



3

### Application

Use a proper tool or equipment, such as a spatula, to apply the mix onto the bonded area or substrate. It is recommended that safety gloves be worn during the application. Ensure that Sealfix™ 103 is spread evenly with a thickness of **2 to 3mm** throughout the bonding surfaces and the distance of the drain shoulder.



## ARMOURFIX™ 108

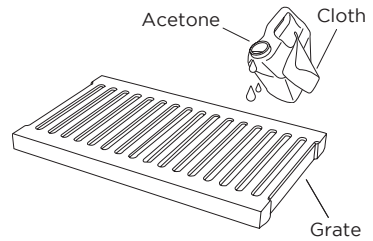


All Jonite products are impregnated with a coat of ArmourFix™ 108, a clear stone sealer. It has very high compressive strength, remarkable cohesion, superior hardness and high wear resistance.

1

### Preparation

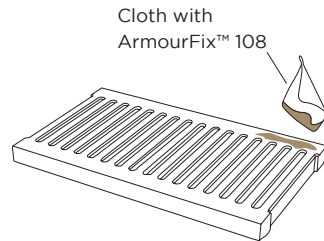
Clean and remove dust, rust, oil, wax, paint or any substance that may inhibit the adhesion of ArmourFix™ 108 to the substrate. It is recommended that acetone or a similar solvent be used along with a cloth to remove substances. Ensure that the surface of the grate is completely dry so that ArmourFix™ 108 can be properly applied.



2

### Application

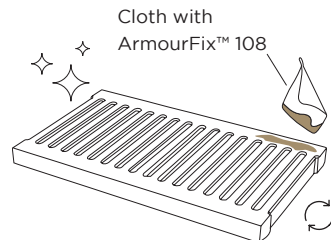
Use a clean and soft cloth to evenly apply ArmourFix™ 108 onto the entire surface. It is recommended that safety gloves be worn during the application. Once the application is made, use a microfiber cloth and remove excess Armourfix™ 108 by soaking up the remainder.



3

### After application

It is recommended to apply additional coats of ArmourFix™ 108, around **2-3 layers**. Ensure that there is a **15-30 minutes** duration between the application of coats. When applying additional coats, remember to remove excess ArmourFix™ 108 to avoid discolouration when the sealer sets in.



## KLEANSOL™ 511

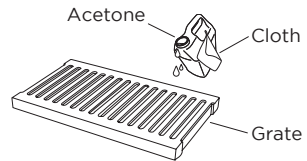


Kleansol™ 511 is a proprietary algae and stain removal solution specially formulated for Jonite products which might be badly soiled due to mishandling or accidents.

1

### Preparation

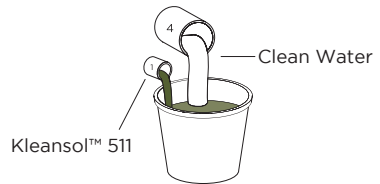
Clean and remove dust, rust, oil, wax, paint or any substance that may inhibit the adhesion of Kleansol™ 511 to the substrate.



2

### Mixing

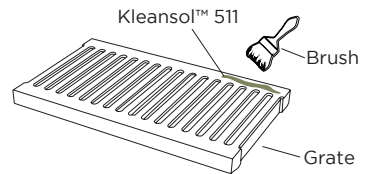
Mix **1 part of Kleansol™ 511** with **4 parts of clean water** thoroughly.



3

### Light Stains

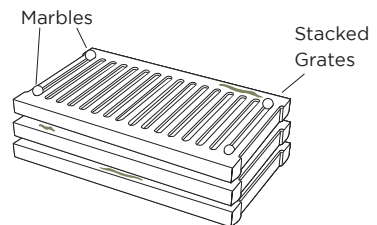
Apply Kleansol™ 511 over treated areas using a clean paint-brush and allow it to work from **15 minutes to 2 hours or more** depending on the condition of the stain. Rinse thoroughly with clean water after. Scrub if necessary.



4

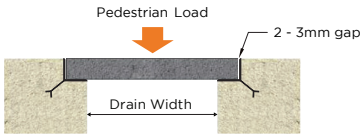
### Heavy Stains

For stronger stains and larger quantities of grates, stack them up with glass marbles in between to enable smooth flow of the solution, and soak them in a container for **1-2 days** depending on the severity of the stains. Rinse thoroughly with clean water after. Once cleaned, applying a layer of ArmorFix™ 108 is recommended.

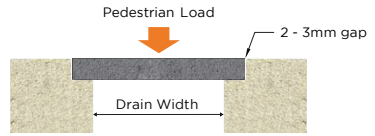


## GENERAL INSTALLATION

### Installation of Light-Duty Gratings

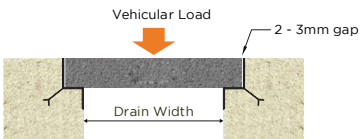


Install with **Metal 'L' Fish Tail**.

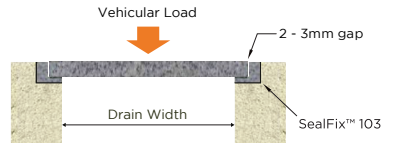


Install directly on flat and level **Concrete Drains and Tiles**.

### Installation of Heavy-Duty Gratings

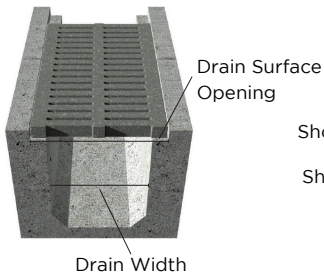


Install with **Inverted or Fabricated 'L' metal** to allow a 90° seating, which prevents breaking caused by 'point seating'.



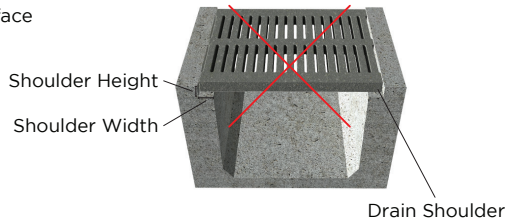
Install with **Jonite L-Trimmer** using Dry Fixing method by SealFix™ 103 (Epoxy Mortar).

### Installation Orientation



**Proper Orientation** for gratings installation.

**Note:** All channel grates, including sump covers, are designed and strengthened based on the transverse direction or the width of the grates.



**Wrong Orientation** for gratings installation.

## Copyright

© Copyright Reserved 2022. The materials, drawings and the design shown here are the exclusive property of Jonite Pte. Ltd. It shall not be copied nor its contents communicated or reproduced in any form and for any purpose without the prior specific authority in writing of Jonite Pte. Ltd.

## Disclaimer

All reasonable care has been taken in compiling the information in this guide. All recommendations and suggestions on the use of Jonite products are made without guarantee since the conditions of use are beyond the control of Jonite Pte. Ltd. It is the customer's responsibility to ensure that each product is fit for its intended purpose and that the actual conditions of use are suitable and appropriate. This guide and any advice provided by the Company are free of charge and accordingly, no liability of any kind (including liability for negligence) will attach to the Company or its agents arising out of or in connection with or in relation to this guide or any such advice. Any goods supplied by the Company will be supplied solely upon its standard conditions of sale, copies of which are available on request. The Company's policy of continuous product development and improvements renders specifications liable to modification. Information provided in this guide is therefore subject to change without prior notification.

**Manufacturer:**

**Jonite**<sup>®</sup>

5 Upper Aljunied Link #01-01  
Quartz Industrial Building  
Singapore 367903

**T** +65-6383-3788

**E** [info@jonite.com](mailto:info@jonite.com)

**W** [www.jonite.com](http://www.jonite.com)

# Jonite®

When Details Matter

---

FAILURE TO COMPLY WITH THESE  
RECOMMENDATIONS COULD LEAD TO IMPROPER  
USE OF THE PRODUCTS AND COULD CAUSE  
SERIOUS DAMAGE TO PROPERTY OR INJURY

