



LINNSTONE  
QUARTZ SURFACES  
PRODUCT MANUAL

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## Introduction

Linnstone is excited to deliver exceptional quartz surfaces to your one-of-a-kind place. By merging high-quality natural quartz with resin and pigments, each piece of linnstone quartz surface is meticulously created and inspected to meet and surpass customers' expectations. A distinct and diverse design style gives you additional options for ornamental effects. Linnstone provides a Residential Lifetime Warranty and Commercial Limited Warranty to the end users purchasing benchtops from certified fabricators regarding the quality of slab. Any failure by a fabricator to comply with the recommended methods of fabrication of benchtops from slabs may result in the refusal of an end-user claim.

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Linnstone Quartz Surfaces Product Manual

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## BASIC INFORMATION

### Applications

Linnstone is excited to bring premium quartz surfaces to your one-of-a-kind space. Linnstone quartz surfaces are premium quartz surfaces that are made by combining high-quality natural quartz with resin and pigments and can be used in residential and commercial interior decoration such as kitchen benchtops, bathroom vanities, office tables, wall paneling, tiles, and more.

Linnstone quartz surfaces are not suitable for outdoor use, or excessive heat over 300° F, or any exposure to direct ultraviolet radiation.

### Measurement

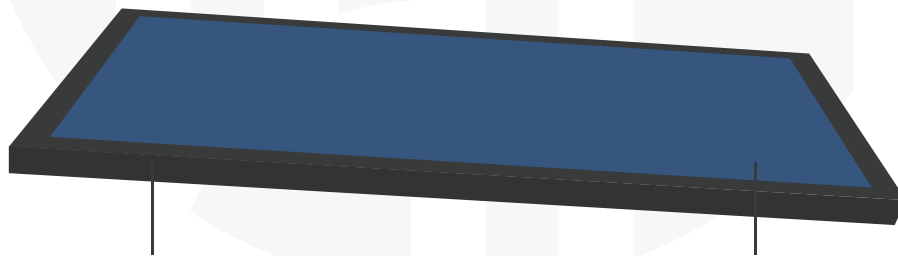
Linnstone quartz surfaces are available in sizes as listed below:

Quartz slab size: 3230 \* 1630 MM, 3530 \* 2030 MM

Quartz Thickness: 20 MM, 30 MM

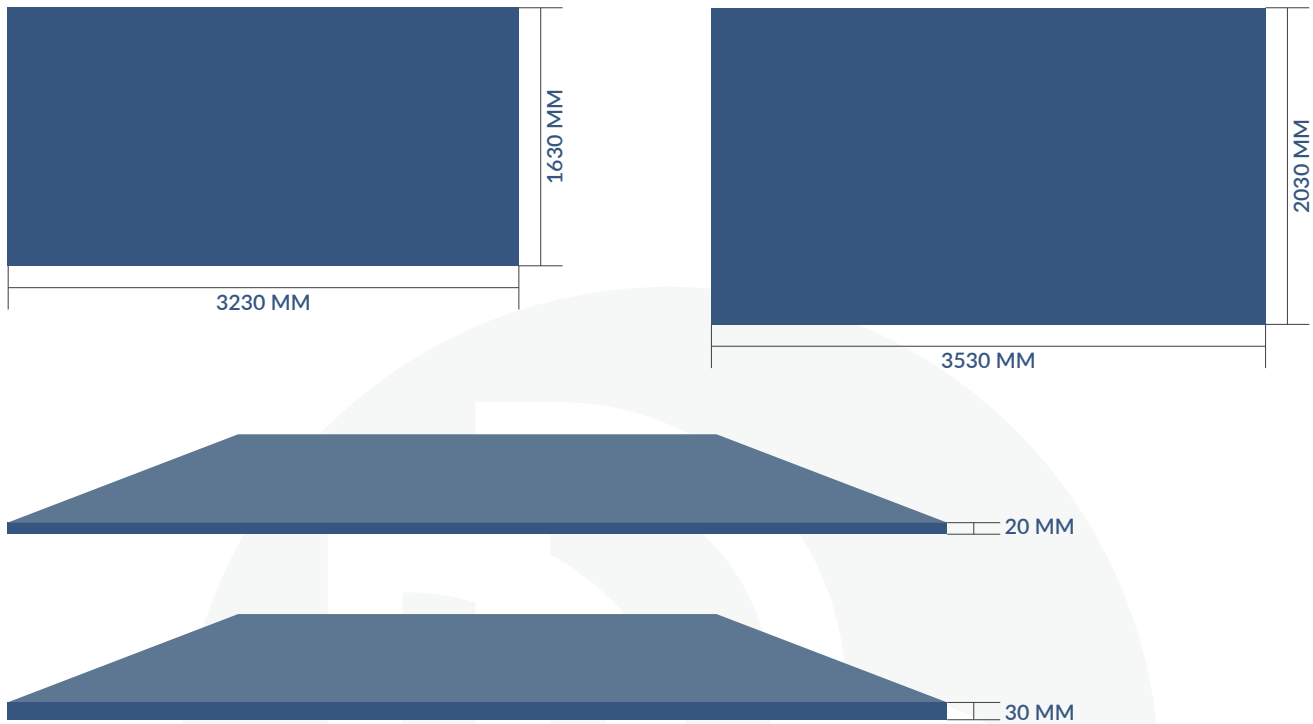
NOTE: Not every colour is available in every size and thickness.

The slab dimensions are for storage and transportation purposes only. The actual availability varies by slab. The grey area around the perimeter should be checked for colour, polish, transportation damage, or any other visible defect for maximum availability width and length of the slab. If the slab is found to be insufficient, it should be replaced before cutting.



Use caution when using the slab's grey-shaded area. Before fabrication, it should be thoroughly inspected. The area will differ from slab to slab and side to side.

The blue area represents the slab's primary usable area.



## Handling

The slabs should be loaded and unloaded from a container or truck using a forklift or lifting equipment capable of handling at least 2,000 lbs. (900kg). Because of the weight, proper safety shoes and gloves should be worn. The weight of 2cm material is 759 lbs. (344kg). 3cm weighs 1138 lbs. (516kg).

Handle slabs individually or in multiples of two. Lift the slabs face-to-face with clamps or sling straps. When face-to-face, grab the slabs from the backside for a better grip.

## Vehicle Loads

It is the driver's responsibility to ensure that the load does not exceed the vehicle's legal weight limit. We are unable to determine this on our premises. Allow approximately 759 lbs. (344kg) per 2cm slab and 1138 lbs. (516kg) per 3cm slab, plus the weight of any other items already loaded on the vehicle, as a guideline.

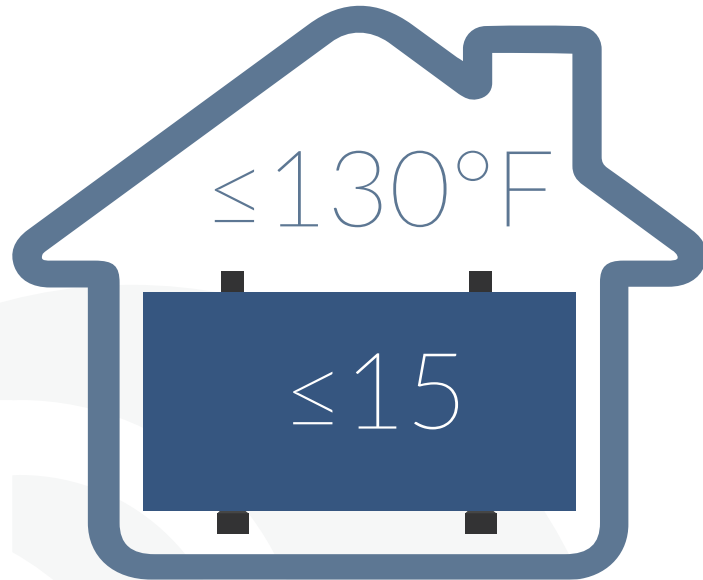
## Keeping the Load Secure

It is the driver's responsibility to ensure that the goods are adequately supported and securely secured to the vehicle before leaving our premises.

**Storage**

Storing slabs in a way that keeps them from warping. To keep the slabs in place, use at least two support beams. Each rack should have no more than 15 slabs that are face-to-face and back-to-back.

It is critical to fasten slabs with straps early on to prevent warping and to maintain a safe working environment. Furthermore, polished slabs should not be exposed to sunlight because UV rays can damage the internal slab structures.



The last slabs in each rack must be kept in a position with the backside facing out. Temperatures in storage should not exceed 130°F.

**Visual Slab Inspection**

A visual inspection for defects or colour matching is required before cutting linnstone quartz surfaces.

- Cracks
- Colour variation
- Pits
- Thickness tolerance

- Flatness
- Polishing Marks
- Scratches
- Residual Colour

- Gloss
- Black Dots
- Voids
- Colour Pigments

If the slab is altered in any way, we will not accept any of the above claims. It is the fabricator's responsibility to determine whether the slabs are fit for use. If it is not, it should be exchanged before being cut or modified.

**Colour Match & Pattern Irregularity**

Checking for a colour match before cutting is a fundamental aspect of slab inspection. Slabs for colour variations may result from different production cycles due to the innate and complex mixture of natural minerals. Visual inspection is necessary to ensure colour consistency.

Linnstone quartz surfaces are distributed randomly across each slab. If the slab has an irregular grain distribution, the fabricator must determine whether the slab is fit for purpose. If this is not the case, the slab should be replaced before cutting.

**Product Technical Data**

LINNSTONE TECHNICAL DATA		
Specifications	Test Method	Results
Water Absorption	ASTM C97	≤0.05%
Density	ASTM C97	2200 - 2400 KG/M3
Flexural Strength	ASTM C880	Dry: 41.8-55.1 Mpa Wet: 47 - 62 Mpa
Compressive Strength	ASTM C170	Dry: 184 - 285Mpa Wet: 192 - 272Mpa
Modulus of Rupture	ASTM C99	Dry: 41.5 - 56.3Mpa Wet: 43.1 - 55.5Mpa
Bond Strength	ASTM C482	3.98 Mpa
Abrasion	ASTM C241	42 - 52
Freeze-Thaw Resistance	ASTM C1026	No evident damage
Surface Burning	ASTM E84	Class A
Thermal Shock	ASTM C484	No obvious flaws
Thermal Conductivity	EN 12664:2001	0.469 - 0.504 W/(m/K)
Chemical Resistance	ASTM C650	Not affected

NOTE: The values listed above are an average range of values from the different products evaluated and should only be used as a guideline.

## Guideline for Respirable Crystalline Silica Health Risks and Protection

### Introduction to Guide

As a responsible quartz manufacturer, we at linnstone consider providing a risk-free environment for all employees and in compliance with all local laws, as a foremost interest.

Linnstone quartz surfaces are manufactured without any type of when transported, shipped, or transported used by the end consumer. However, fabricating and processing the slabs generate respirable crystalline silica dust.

Therefore, this guideline aims to:

1. Provide information on the risks and hazards associated with working in an environment with respirable crystalline silica are created.
2. Provide certain information to assist in reducing workers' exposure to respirable crystalline silica dust, including guidance on the safe use and protective measures available for products containing crystalline silica in the workplace.

### What is Silica

Silica (also known as crystalline silica) is silicon dioxide. It is naturally occurring and can be found in rocks, soils, sand, concrete and mortar.

### Where Silica Is Used

Silica is used to make products including:

1. composite stone used to fabricate kitchen and bathroom benchtops
2. bricks
3. tiles
4. some plastics.

There are non-crystalline and crystalline forms of silicon dioxide. The most common type of crystalline silica is quartz.

### When Silica Is Dangerous

When silica becomes airborne and is inhaled by a worker it is extremely dangerous. Silica dust is generated in workplace processes such as:

1. crushing
2. cutting
3. drilling
4. grinding
5. sanding.



Silica dust can be generated and found:

1. during manufacturing and construction
2. when mining or tunnelling
3. in waste or sand-based products
4. in materials brought to your workplace
5. during fabrication and installation of composite (engineered or manufactured) stone benchtops
6. excavation, earth moving and drilling plant operations
7. clay and stone processing machine operations
8. paving and surfacing
9. mining, quarrying and mineral ore treating processes
10. tunnelling
11. construction labouring activities
12. brick, concrete or stone cutting; especially using dry methods
13. abrasive blasting (blasting agent must not contain greater than 1 percent of crystalline silica)
14. foundry casting
15. angle grinding, jack hammering and chiselling of concrete or masonry
16. hydraulic fracturing of gas and oil wells
17. pottery making
18. concrete cutting
19. dry sweeping respite facilities
20. demolition activities.

Some dust particles can be so small that they are not visible, these are referred to as respirable particles. Respirable silica dust particles are small enough to breathe in and penetrate deep into the lungs causing permanent damage that can lead to serious illness or death.

### **Silica-related Diseases**

If a worker is exposed to silica and breathes it in they can develop:

1. chronic bronchitis
2. emphysema
3. acute silicosis

\* can develop after a short exposure to very high levels of silica dust, within a few weeks or years, and causes severe inflammation and an outpouring of protein into the lung

4. accelerated silicosis

\* can develop after exposures of 3 to 10 years to moderate to high levels of silica dust and causes inflammation, protein in the lung and scarring of the lung (fibrotic nodules)

#### 5. chronic silicosis

\* can develop after long term exposure to lower levels of silica dust and causes fibrotic nodules and shortness of breath

\* can include progressive massive fibrosis where the fibrotic nodules in the lung aggregate

#### 6. lung cancer

#### 7. kidney damage

#### 8. scleroderma

\* a disease of the connective tissue of the body resulting in the formation of scar tissue in the skin, joints and other organs of the body.

## What Duty Holders Need to Do

### Employer Duties

Persons conducting a business or undertaking (PCBUs - employers) or duty holders need to implement control measures to eliminate or minimise generating silica dust in the workplace.

Officers, such as company directors, have a duty to ensure the business or organisation has and uses appropriate resources and processes to eliminate or minimise the risks of working with silica and silica containing products. This includes:

1. identifying the hazard of silica dust
2. controlling the risk of exposure to silica dust
3. conducting air monitoring
4. providing health monitoring for workers.

As an employer, when discussing health and safety matters with workers, you should take a consultative approach to allow workers a reasonable opportunity to express views before any decision is made.

### Worker Duties

Workers have a duty to take reasonable care for their own health and safety and they must take reasonable care that their actions or omissions do not adversely affect the health and safety of other people.

As a worker, you must:

1. comply, as far as reasonably able, with any work health and safety instruction from the employer
2. cooperate with any reasonable policy or procedure relating to work health and safety that your employer puts in place

3. wear personal protective equipment as instructed by the employer and participate in health monitoring, if you have been told about it beforehand. If you refuse, the employer may take action to meet its duties under work health and safety laws – including removing you from the source of exposure.

## Workplace Exposure Standards

Exposure to substances or mixtures in the workplace can occur through inhalation, absorption through the skin or ingestion. Most exposure occurs through the inhalation of vapours, dusts, fumes or gases. For some chemicals, absorption through the skin may also be a significant source of exposure.

Exposure standards have been established in Australia for around 700 substances and mixtures. The standards are updated occasionally and may not always reflect the latest research or state of knowledge on the hazardous effects of chemicals.

Exposure standard means an exposure standard listed in the Workplace exposure standards for airborne contaminants (WES) and represents the airborne concentration of a particular substance or mixture that must not be exceeded. There are three types of exposure standards:

1. eight-hour time-weighted average (TWA)
2. short-term exposure limit (STEL)
3. peak limitation.

The WES for respirable crystalline silica in the Comcare jurisdiction is a TWA of 0.05 mg/m<sup>3</sup>. The exposure standard was halved from a TWA of 0.1 mg/m<sup>3</sup> on 1 July 2020 following agreement by jurisdictional work health and safety ministers and an extensive review by Safe Work Australia.

## Hierarchy of Controls

Managing risks and worker exposure to silica can be achieved by the following controls:

1. substitution – such as sourcing composite stone benchtops with a lower percentage of silica.
2. isolation of the hazard – using principles of safe work design to designate areas for tasks that generate dust and appropriate worker positioning during these tasks, using enclosures and automation to conduct dust generating tasks.
3. engineering controls – that minimise the risk of exposure to generated dust, for example, local exhaust ventilation, Misting or halo sprays water suppression (wet cutting) or using tools with dust collection attachments.
4. administrative controls (should a risk still remain) – including good housekeeping policies, shift rotations and modifying cutting sequences.

5. personal protective equipment (should a risk still remain) – including appropriate respiratory equipment (generally a minimum of a P2 efficiency half face respirator) that has been fit-tested by a competent person and work clothing that does not collect dust.

More than one control will normally be required to adequately protect workers.

### **Disclaimers**

The information of Respirable Crystalline Silica Health Hazards & Protection mentioned above is an excerpt from Australia Government Comcare. It is impossible to cover all the details regarding crystalline silica dust in the workplace. In addition, none of the content in this guide may be construed as a recommendation for using any product or tool in violation of any laws, safety practices, or other applicable terms. Laws and regulations of silica dust are different from country to country. We suggest you check and observe local legislation related to working in environments containing hazardous dust. Local regulations shall take precedence over these guidelines.

NOTE: This guideline is excerpted from Australia Government Comcare for reference. Fabricators can operate according to the actual situation of respective countries and regions.

## Fabrication Instructions

### Tools and Safety Equipment

To efficiently produce finished products, all fabricators must have essential tools and safety equipment. The following are a list of tools that are either required or recommended:

#### Basic Tools

- Bridge saw
- Electric/pneumatic polisher (variable speed preferred)
- Diamond grinding wheel
- Diamond polishing pad
- Grinding stone
- Core bits
- Diamond contour blade
- Wet profiling machine (edge router)
- Stone carts/dollies
- A-Frame/storage racks
- Fabrication stands
- Air compressor
- Seaming clamps
- Water source

#### Advanced Tools

- Water jet
- CNC
- Automated profiler
- Diamond jigsaw

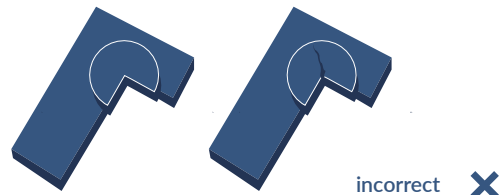
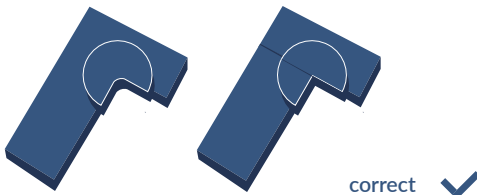
#### Basic Safety Equipment

- First-Aid kit
- Safety glasses
- Dust masks
- Safety gloves
- Steel-capped safety shoes
- Aprons
- Earplugs

### Basic Fabrication Guidelines

The following guidelines should be followed to ensure high-quality products:

1. Only water-cooled tools should be used for cutting, drilling, and polishing linnstone quartz surfaces to avoid overheating the slab.
2. Do not alter the original surface finish of the slabs by re-polishing, honing, sealing, or otherwise altering the factory finish.
3. To avoid damaging the corner area with the cutting disc, use a core bit when cutting inside corners. A stress point will form if the radius area is damaged.
4. Do not cut square corners (cross-cut) as this will create stress points in the slab and may result in cracking.
5. Any angled internal corner must be radiused. Cut with the saw up to the drilled hole's joint, leaving the drilled hole intact. Dry grinding/polishing the corner should be avoided because overheating the area may result in a crack.



## Insider Corners

In the case of an angular-shaped kitchen ((L- or U-shaped), the benchtop surfaces should be made from a single slab. The interior corners must have a minimum radius of 3/8".

## Cutouts

1. The area must be supported if the distance between the cutout and a joint is less than 6". This can be accomplished by ensuring that all joints are placed at the base cabinet joint or by installing a solid slat beneath the joint.
2. Damage to the drilling area can cause minor cracks at stress points. To avoid overheating and causing hairline cracks, all cuts should be made with wet diamond cutting tools.
3. Always leave an extra 1/8" between the device and the cutout edge for expansion.
4. It is best to avoid cross-cutting. When preparing a cutout, always use a core bit.



## Seams

1. Adjusting the material before the adhesive sets levers all seams.
2. Do not surface polish seams to make them even/level.
3. Any internal angled corner in the seam must have a 3/8" radius if a straight seam is not used.
4. Using a cutting-edge seam setting tool, keep the seams as narrow and unobtrusive as possible. The width of the seams shall not exceed 1/16".



## Edge Detail

1. All exposed edges must be finished in the same way as the surface and have a minimum edge profile of 3-4 mm (1/8").
2. The top and bottom edges must be rounded or bevelled, and we prefer a Pencil Round edge detail.

3. The greater the surface area of the edge, the greater its resistance to chipping.
4. Linnstone recommends that edge details have a minimum of 5 mm (3/16") radius on both top and bottom, and a minimum of 6 mm (1/4") radius on outside corners for areas with high traffic/abuse.

## Polishing Edge Profiles

Only granite or marble diamond polishing pads should be used to polish the edge profile of any linnstone quartz surfaces. Linnstone recommends using a superior pad and plenty of water for the best polishing results. Linnstone quartz surfaces should be polished to be smooth, clean, and free of residual adhesive. It is important not to over-polish the edges beyond the factory surface polish.

Linnstone quartz surface polishing procedure:

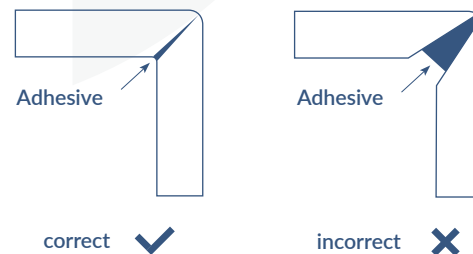
1. Honed finish 100, 200, 400-grit diamond pad
2. Polished finish 100, 200, 400, 500–800, 1500–2000, 2000–3000-grit diamond pad

These guidelines are intended to help you achieve a polish that is comparable to the factory surface polish. The polishing results will be affected by the tools, manufacturing techniques, and diamond pads used. When polishing the edge profile, use water-cooled tools because the dry-polishing profile can cause overheating and chipping. Overheating weakens the slab's physical structure; micro-fissures form that are invisible to the naked eye, resulting in chipping on impact, discolouration, and an uneven polish. Here are some ideas to get you started.

1. Do not use stone "buff" pads on linnstone quartz surfaces.
2. Do not over-polish edge details beyond factory surface polish.
3. When using 1000-grit or higher diamond polishing pads, use lower RPM on polishers.

## Mitered Edges

1. To ensure maximum strength, mitered edges should be made at a 45° angle. Clean, flush, and parallel joints are preferred.
2. Chipping occurs most frequently when the adhesive is not applied evenly throughout the joint.
3. Mitered edges have the most vulnerable areas of weakness and are prone to chipping. (We recommend a minimum edge profile of 1/8" bevel.) A 1/8" (3-4mm) Pencil Round edge is our preferred minimum edge profile.
4. Because the larger the edge profile, the larger the visible joints, incorrect angles limit the type of edge that can be generated.



5. Do not cut edges at less than 45° because this exposes the edge to physical damage such as chipping.
6. For maximum strength, ensure that the adhesive is evenly distributed throughout the joint.

### **The Practice of Polishing Finish Edges**

Here are some procedures to achieve the best-textured appearance:

1. Cut the surface into the required pieces/segments before polishing.
2. Attach all pieces required for the final design to a suitable working surface using clamps.
3. If necessary, glue the edges before polishing.
4. Cut or shape the necessary edge profile.
5. Smooth and polish the edge shape using standard polishing procedures and levels - up to a maximum of 100-120 grain.
6. Using a large amount of water to polish texture finish surfaces.
7. It will take about the same amount of time to polish a texture finish edge as it will to polish a regular edge.
8. Using a suitable manual, electric, or pneumatic angle grinder with a low RPM of 600-1200. Connect it to the water source with a 60-grain special texture brush.
9. When polishing the textured finish, use movements similar to those used when polishing a regular edge.
10. Switch to a 120-grain brush and polish until no visible marks of the 60-grain brush remain.
11. Repeat with 400, 800, and 1600 grain brushes above until the edges match the texture of the surface.

### **Adhesives**

It is critical to use flexible adhesives, such as 100% clear silicone adhesive, to secure the benchtops to the cabinets, substrate, or linnstone quartz surfaces splashbacks to the wall. This will allow for limited thermal expansion. Epoxies, liquid nails, construction adhesive, and other non-flexible adhesives do not compensate for thermal expansion. Linnstone quartz surfaces will not honour any claims for cracks caused by tops being bonded to base cabinets with non-flexible adhesives. As a result, follow the manufacturer's instructions for stone adhesive. Maintain good stoneworking and safety practises at all times.

### **Seaming & Laminations**

Linnstone requires all fabricators to follow the individual manufacturer's instructions for using their seaming adhesives, including the minimum working temperatures for their product. Failure to follow the instructions will void the warranty on the Linnstone quartz surfaces. Linnstone recommends a polyester resin knife-grade adhesive for all seaming and laminations, as well as the Integra Estone 101 & Tri-Bond 30 cartridge system.

### **Joint Adhesives**

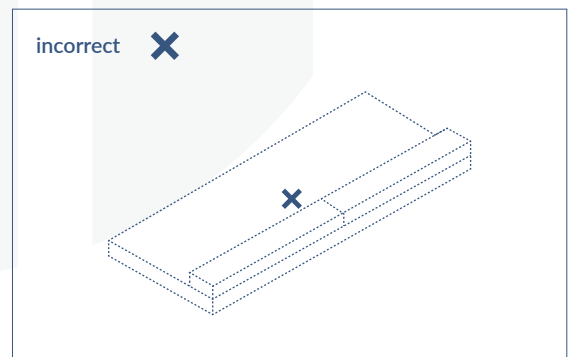
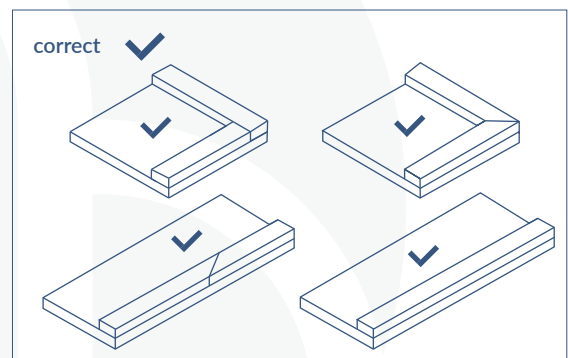
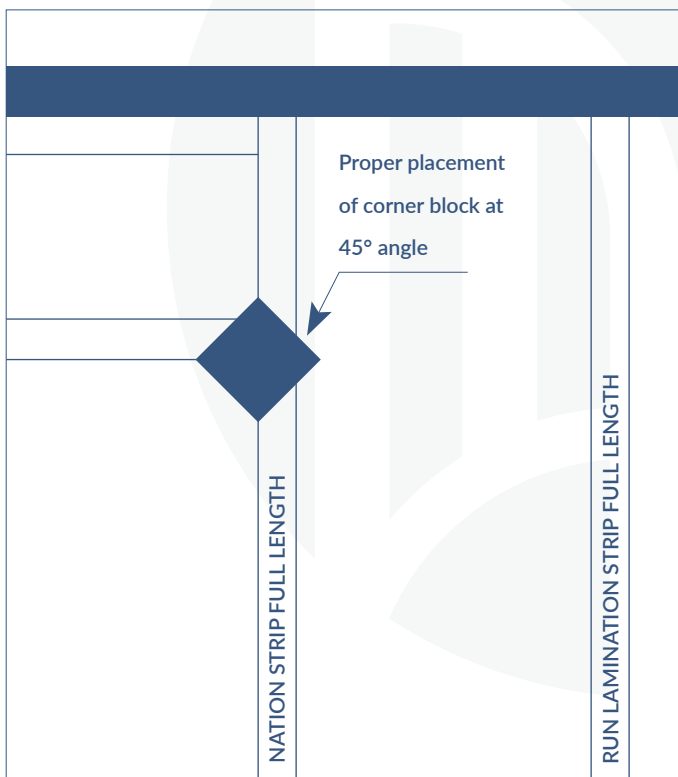
The adhesive must be pigmented to match the colour of the material being installed, which can be accomplished by combining colour paste pigments with the adhesive.



### Laminations/Double Edges

When laminating, make sure the lamination piece is the full length of the top piece and cut at 45° on the corners. If this is not possible and a joining of the lamination pieces is required, the joint must be cut at a 45° angle. Mitered end cuts can be used to reduce stress on the material, which can result in stress fractures. To ensure consistent colour, the laminating strips should be cut from the same slab as the benchtops surface material. When cutting the laminated piece, add the lamination piece size to your cutting measurements to ensure you have the same colour piece and length for your lamination.

1. Full-length lamination pieces should be used.
2. To reduce stress on corners, a 45° corner joint is recommended.
3. To reduce stress points, ensure that the joint in the lamination piece is at 45o for very long benchtops that require a joint.



## Seaming

1. All seam surfaces should be smooth and debris-free.
2. To reduce seams, use the advanced seam setter tool. Seams should be no wider than 1/16" wide.
3. Linnstone quartz surfaces necessitate the use of coloured glue for all seams, which can be accomplished by using one of the pre-mixed Integra colours or by manually tinting your preferred glue.
4. Mechanical fasteners (screws, nails, etc.) should never be used on linnstone quartz surfaces.
5. Surface polishing of seams on Linnstone quartz surfaces should be prohibited.
6. To make room for glue, grooves should be cut into the surfaces to be attached. Extra glue should be applied to all corners and around joints. Please see images A and B for more information.



Picture A

To reinforce the seam, the illustration shows the use of a bevelled edge and a biscuit joint. When using this method, make sure to only bevel the seaming edge up to 1" behind the exposed surfaces.



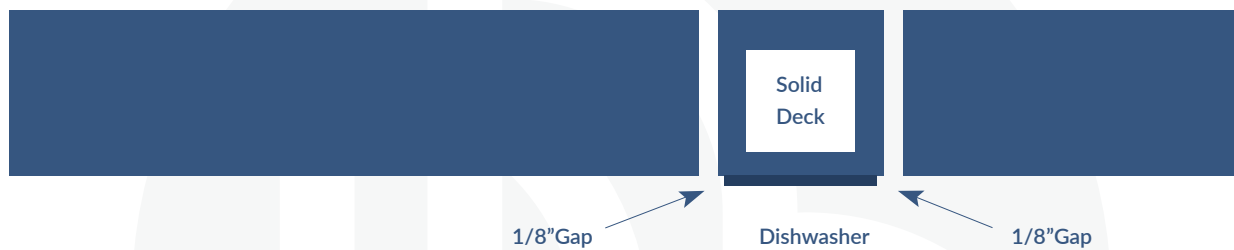
Picture B

Adhesive

## Joint Positions

Seam over dishwasher (not recommended)

1. Full deck-isolated support is required if the seams must be located above the dishwasher. This will allow for adequate support and thermal movement.
2. The plywood sub-top over the dishwasher must be isolated from the rest of the sub-top when installing  $\frac{3}{4}$ " (2cm) material. Allow  $\frac{1}{8}$ " clearance on either side of the full deck support to accomplish this.
3. On seams, mitres, and lamination areas, notches or grooves must be ground into the surfaces to be bonded together. Linnstone quartz surfaces are nonporous and will not absorb the adhesive; these notches allow the adhesive to spread throughout the joint.



## Transportation

Because the stone is so heavy and fragile, portability must be considered when packaging and transporting it. Here are three pointers to consider:

1. Brace all cutouts to avoid flexing of the seams and corners.
2. Ensure that the slabs' surfaces are always protected and that they do not come into contact with metal or the backs of other slabs.
3. Transport linnstone quartz surfaces that are face-to-face or back-to-back.
4. A removable "A" frame that can hoist off the delivery vehicle can be used for stone slab transportation.
5. Straps should be used to secure the slabs to the rack.
6. A protective layer should be placed between the rack and the linnstone quartz surfaces to prevent damage during storage and transportation.
7. The delivery vehicle requires at least two people to transport the product to the site.

## Installation Instructions

### Preparing Base Units/Cabinets

Check the cabinet installation to ensure that the cabinet is fully installed and level. Cabinet tops must be flat and no more than 1/16" (1.5mm) wider than 18". (457mm). The cabinets should be attached and then fixed to the back wall. In the case of a dishwasher, ensure that the surrounds of the counter opening have adequate support. To better match the kitchen, the front edge of any benchtops over a dishwasher should always be supported with material matching the installed cabinets.

NOTE: If the cabinets do not meet the minimum standards, the installer should notify the homeowner or project manager that they must be present at the job site before installing tops.

### Support

Here are some guidelines for installation, material, and type of supports:

1. Linnstone quartz surfaces require a strong perimeter frame.
2. Every 24", front-to-back cabinet support should be provided.
3. Plan for 2.5" wide (40mm-100mm) front-to-back support strips to coincide with cutouts and periodic support.
4. There is a need for support across the top of a dishwasher space and over an under-counter oven.
5. Under all benchtop joints, support must be provided.

### Overhangs

Linnstone quartz surface overhangs necessitate support. The following guidelines apply to standard 24" deep cabinets:

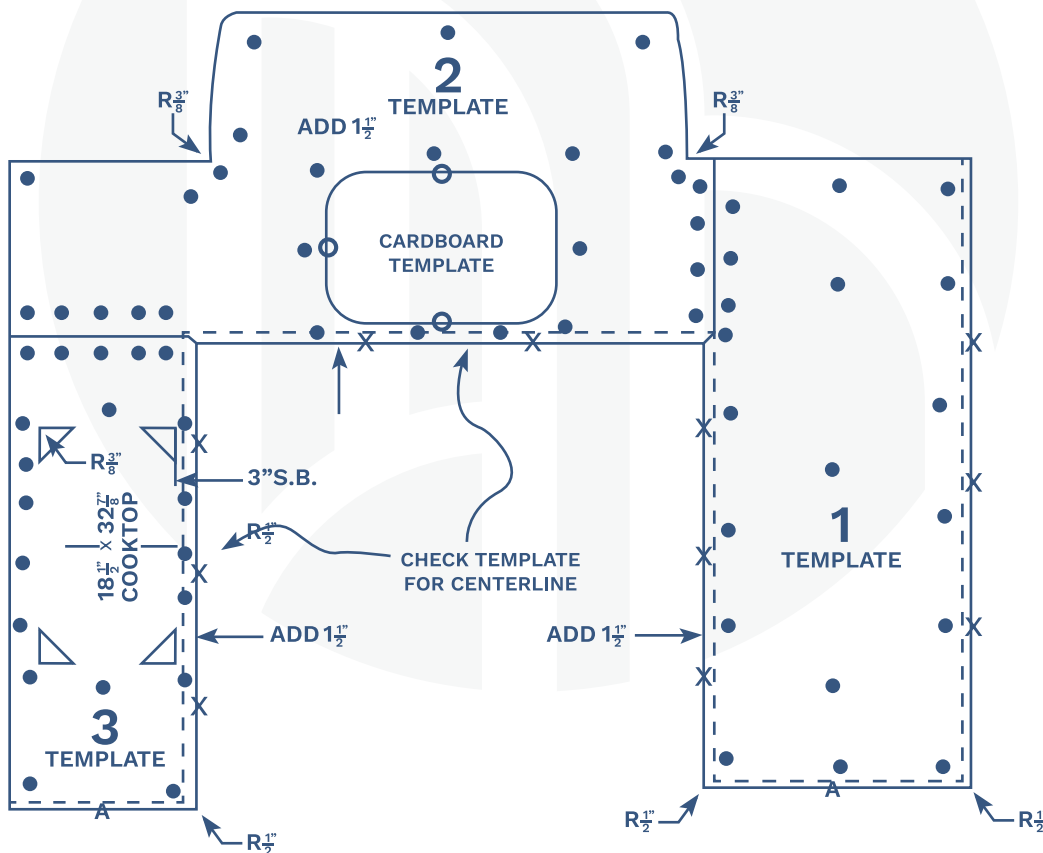
2CM (3/4")	2CM (3/4") with 5/8" sup top	3 CM (1 1/4")	MATERIAL SUPPORT REQUIRED
Less than 8" (200mm)	Less than 12" (300mm)	Less than 16" (400mm)	No additional support required.
8-16" (200-400mm)	12-20" (300-500mm)	16-24" (400-600mm)	Brackets required at 24" (600mm) intervals.
Over 16" (400mm)	Over 24" (500mm)	Over 24" (600mm)	Legs, Columns or Panels required at 24" (600mm) intervals.

### Fitting

1. Linnstone quartz surfaces require space to expand, so there should always be enough. Each benchtop requires at least one eighth inch of expansion and contraction in each wall.
2. Mechanical fasteners (screws, nails, etc.) should never be used to attach mechanical fasteners to linnstone quartz surfaces. Bolted connections are permitted.
3. Use only dabs of flexible silicone 8-12" apart to attach the linnstone quartz surfaces to the supports. Extra adhesive should be applied to all joints and cutouts.

### Benchtops Adhesive

For affixing the linnstone quartz surfaces to the cabinets and all supports, we only recommend using 100% silicone adhesive.



## Securing of Benchtops

1. Apply dabs of silicone 8-12" apart to the top.
2. Overhangs over 8" (200mm) require support for 34" (2cm) thick slabs and 16" (400mm) for 114" (3cm) slabs.
3. Apply extra silicone to all corners, joints, and cutouts.
4. Using a colour-matching adhesive, sew the seams together.
5. Radius all cutouts' inside corners.
6. Allow for plenty of space between the tops and the walls.
7. Avoid cutting corners.
8. All cabinets must be levelled and supported before installing the tops.
9. If the cabinets have adjustable legs, make sure that all of them are evenly tensioned to prevent movement.

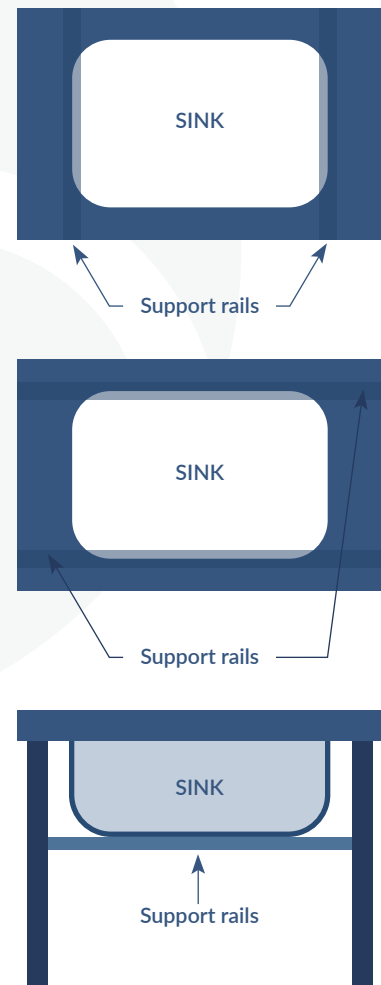
## Sinks and Basins

We recommend that you follow the sink manufacturer's recommendations for all sink or basin installations, whether top-mount or under-mount.

1. To reduce the risk of chipping in under-mount installations, adhere to the minimum edge profile recommendations around the cutout. A 1/8" bevel is our recommended minimum edge profile. A 1/8" (3-4mm) Pencil Round edge is our preferred minimum edge profile.
2. Twin basin installations (top- or under-mount) with the tap hole in the benchtops necessitate extra care to ensure that there is enough material left for strength.
3. To avoid stress points in the top, all sink cutouts must have drilled radius corners (minimum 3/8").
4. All sink installations should be fully supported independently of the top of linnstone quartz surfaces. Use a professional sink-setting or support rail system. Plan for 2.5" wide (40mm-100mm) front-to-back support strips to correspond with cutouts and periodic support. The joints on all benchtops must be supported.
5. Mechanical fasteners (screws, nails, etc.) should never be used on linnstone quartz surfaces.

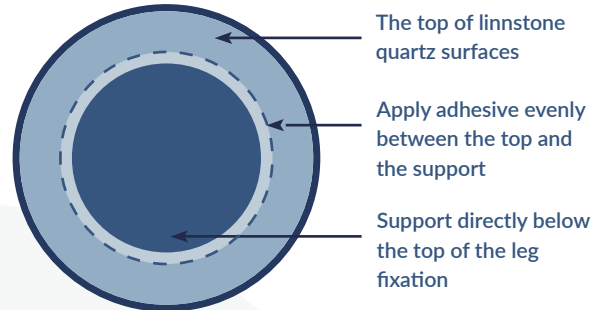
## Under-mount sink installations

1. On the benchtops, all under-mount sinks should be sealed with 100% silicone.
2. The inside edges of all under-mount sink cutouts must be polished to match the surface.



### Table Tops

If you're using linnstone quartz surface as a freestanding tabletop, pay close attention to how the top is attached to the base. This is especially important when the table only has one central leg to support it. The top of linnstone quartz surfaces may be too flexible to be adequately secured to the base with a silicone adhesive. Linnstone would recommend using a stronger, harder adhesive such as polyurethane [Sika-Flex] that is strong but still flexible to ensure that the top is properly secured to the base.



### Wall Applications

Linnstone quartz surface structural requirements require that the walls covered be strong, safe, and hard, as well as comply with all applicable laws and engineering practises. Linnstone recommends that all wall applications use only latex thin-set mortar adhesive or epoxy adhesive and grout. Weather-resistant, frost-resistant, shockproof, and chemical corrosion-resistant bedding and grouting mortar must meet the following physical requirements:

Compressive Strength:	Thick-bed mortar	3000 PSI Minimum
Compressive Strength:	Thin-bed, bonding, grouting mortars	500 PSI Minimum
Tensile Strength:	Thin-bed, bonding, grouting mortars	500 PSI Minimum
Water Absorption		4%
Ozone Resistance:	200 hrs @ 200ppm	No loss of strength
Smoke Contribution Factor		0
Flame Contribution Factor		0

1. Always use good stoneworking and safety practises, and follow all applicable building codes and regulations.
2. Linnstone quartz surfaces are appropriate for properly prepared concrete, block, and masonry-type surfaces, gypsum wallboard, plasters, cement backer board, plywood, asphalt, and steel.
3. Urine, diluted acid, dilute alkali, sugar, brine, and food waste products should all be resistant to the finished mortar and grout.

4. Linnstone quartz surfaces, as well as the mortar used to set and grout them, do not form a waterproofing barrier and should not be considered as an alternative waterproofing membrane. Please contact your preferred supplier for more information on thin, load-bearing waterproof membranes.
5. Dust, oil, grease, paint, tar, wax, curing agents, primers, sealers, form release agents, and any other harmful substances that can act as bonding barriers must be removed from bonded Linnstone quartz surfaces.
6. It is the installer's responsibility to ensure that any such contaminants are removed prior to the installation of linnstone quartz surfaces.
7. To ensure compatibility, all mortar additives, epoxy adhesives, and grouts should come from the same manufacturer.
8. All linnstone quartz surfaces must be treated without fragmentation, breakage, or foreign matter intrusion.
9. Handle, store, mix, and apply all set and grouting materials exactly as directed by the manufacturer.

### **Finishing Touches**

It is critical to inform your customers that subsequent trades must not use the new benchtops as a workbench, stepping platform, or standing platform, and that any trades using solvents or adhesives must take precautions to avoid and/or remove any spills caused by their solvents or adhesives. Furthermore, if additional construction work is to be done at the work site after the surface installation is finished, make sure that the entire top of the linnstone quartz surfaces is covered with corrugated cardboard or other protective material to properly protect the linnstone quartz surfaces. Linnstone recommends that during the finishing touches, your customer confirm in writing their satisfaction with the material and workmanship to protect you from third-party damage.

### **Returning Slabs**

Before altering any slab that does not fit, it should be returned for credit or exchange. If returned within seven days, there is no restocking fee. A restocking fee may apply after seven days.

### **Requirements for Drivers**

1. Drivers are responsible for ensuring that the slabs are properly loaded.
2. Which orders are to be picked up should be communicated to contract drivers. This is especially important when multiple orders are awaiting pickup or delivery. Any additional costs incurred as a result of missing goods during the initial delivery will not be borne by the distributor.
3. Drivers are not permitted to roam the warehouse unless accompanied by an authorised individual.



## Care and Maintenance Instructions

Linnstone quartz surfaces are high-quality, solid, non-porous products that are highly resistant to stains caused by fruit and vegetable juices, liquid food colouring, coffee, tea, wine, soft drinks, and olive oil. To keep your linnstone quartz surfaces looking great, simply clean them with a damp cloth or paper towel and, if possible, a small amount of mild detergent. After cleaning, thoroughly rinse and dry the surface. To avoid a dull surface, use a non-abrasive cleaner and thoroughly rinse after use. Linnstone quartz surfaces require minimal upkeep, and adhering to the care and maintenance guidelines will help to keep the surface in good condition for years.

### REGULAR CLEANING

#### 1. Cleaning Dried Spills or Stubborn Stains

If necessary, apply non-abrasive household cleaners to the affected area for a few minutes. Soak the affected area in paper towel pads for 5 to 10 minutes. Scrub the area gently in a circular motion with a non-scratch pad. Thoroughly rinse any cleaner with clean water. Then thoroughly dry with a soft cloth or paper towel. As a final step, use streak-free Windex to remove any gel residue.

#### 2. Getting Rid of Adhered Materials

Adhered materials include gum, nail polish, paint, and any other foreign matter. Scrape away the excess material with a plastic putty knife or a razor first. Then, using a damp cloth, clean the surface to remove any remaining marks and dirt. Also, avoid using abrasive pads to remove tougher dirt because they can damage the finish/sheen of your benchtops. Household cleaners and ordinary scouring pads can be used to remove any grey marks left by the blade. If necessary, rinse and clean any gel residue with streak-free Windex.

#### 3. Cleaning and Maintenance of Textured Finishes

Texture Finishes refer to finishes other than polishing finishes, such as honed finishes, leathered finishes. These finishes are more difficult to clean than our polished finish. Fingerprints, grease, wet spots, metalmarks, and other signs of daily life appear more prominently on these surfaces. The majority of these marks are easily removed with little effort and non-abrasive cleaning products like Soft Scrub Liquid Gel. These finishes are not suitable for high-traffic areas.

### CAUTION

#### 1. Avoid Using Chemicals and Solvents (Cleaners)

Prolonged exposure to harsh chemicals and solvents can permanently damage quartz. It is best to avoid exposing linnstone quartz surfaces to chemicals with PH levels higher than 5-8, such as grill cleaners, floor strippers, paint removers/furniture strippers, toilet bowl cleaners, products containing pumice, oil soaps, tarnish or silver removers, furniture cleaners, drain products, battery acid, dishwasher detergent, and so on. If your linnstone quartz surfaces are inadvertently exposed to potentially harmful products, immediately rinse with water to neutralise the effect.

Use abrasive or strong alkaline/acid cleaners, free radicals, oxidizers, or the like (whether high, neutral, or low PH). Various chemicals have the ability to corrode and/or erosively attack any structure, including linnstone quartz surfaces. Be mindful of these potential product damages.

## **2. Avoid Scratching and Hitting**

Linnstone quartz surfaces are more resistant to surface damage and wear than other stones. All stones, however, can be damaged by force, and no stone is chip-proof. Objects striking edges, especially near sinks or dishwashers, can cause chips. A minor knife slip will dull the knife but will not harm the linnstone quartz surfaces, but no stone surface is scratch-proof. Surface markings on mono stone designs are more visible than on multi-coloured surfaces. When working with sharp knives, always use a cutting board. When moving heavy objects, use caution and avoid dropping heavy kitchen tools, especially on the edges of sinks or dishwashers.

## **3. Caution: Heat**

Linnstone quartz surfaces are designed and manufactured to be heat resistant, but they are not heatproof. Linnstone quartz surfaces, like any other composite material, can be damaged by sudden or prolonged exposure to high temperatures, resulting in cracks, particularly at the product's edges and cutouts. When placing hot objects on the surface, insulating pads must be used to prevent thermal shock, discolouration, or other damage. Avoid prolonged contact with very hot pots and keep linnstone quartz surfaces away from open flames. A hot pad or trivet is always recommended, especially when using cooking units such as electric frying pans, griddles, crock pots, or toaster ovens. Hot cookware should not be placed directly on the surface of linnstone quartz surfaces.

## **4. Avoid Direct Sunlight**

Reduce direct sunlight exposure on linnstone quartz surfaces. Long-term direct sunlight exposure may discolour the surface finish. Linnstone quartz surfaces are only suitable for interior use.

## **ATTENTION**

### **1. Colour Uniformity and Consistency**

Linnstone quartz surfaces are made entirely of natural quartz. Natural stone (quartz) colour, pattern, size, shape, and shade variations are inherent and unique characteristics of this product. This has no bearing on the product's performance.

Many products contain colour blotches in order to enhance natural beauty. Samples are small select cuts from a slab that do not exhibit all of the design's characteristics and thus are not fully representative of what will be installed. Because of these variations, the product will not be replaced.

### **2. Support**

Linnstone quartz surfaces are not designed to provide structural support. Linnstone quartz surfaces with a thickness of 2 or 3cm are only suitable for benchtops and must be supported. Linnstone quartz surfaces with a

thickness of less than 2cm are used for surface finishes such as walls, tub and shower surrounds, and fireplaces. Horizontal applications, such as a tub deck, require full support.

### 3. Installation

When walls and cabinets are properly prepared for installation, Linnstone quartz surfaces installation is optimised. This includes, but is not limited to, structurally sound, straight, level, and square walls and cabinets, the absence of which may result in poor installation and seam fit, as well as inconsistent benchtop overhang and placement.

The installation of Linnstone quartz surfaces does not include the qualification of any sink or stove cutouts (any cutouts), faucet hole locations, or cabinet sizes. Linnstone is not responsible for ensuring that sinks, stoves, and other cutout appliances, cabinets, and faucet hole locations fit well or at all. This is the owner's, general contractor's, or similar responsibility. Linnstone will create cutouts based on the model/template information provided. Linnstone does not guarantee the accuracy of the information provided.

The owner and/or other users are responsible for the proper care and maintenance of goods. The Care and Maintenance Guidelines can be found at [www.linnstone.com/au/](http://www.linnstone.com/au/).

Linnstone reserves the right to change the guidelines at any time. Following the most recent guidelines is highly recommended in order to keep your linnstone quartz surfaces in good condition for many years.

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## Special Care Considerations Form



### Special Care Considerations for Textured Finishes

Linnstone provides various colours with different quartz textured finishes. Texture Finishes refer to finishes other than polishing finishes, such as honed finishes, leathered finishes. Please keep in mind that these finishes require more maintenance than our polished finish. Fingerprints, grease, wet spots, metal marks, and other signs of daily life are more visible on these surfaces. The majority of these marks are easily removed with little effort and non-abrasive cleaning products like Soft Scrub Liquid Gel. These finishes are not suitable for high-traffic areas.

By signing this document, you acknowledge that you have been fully informed about the characteristics of these one-of-a-kind finishes. You also understand that, while linnstone quartz surfaces have a Residential Lifetime Warranty, this warranty only covers failures caused by product defects when the material is installed by a certified fabricator of linnstone quartz surfaces. Our linnstone quartz surfaces warranty does not cover temporary marks that are common on these finishes.

Please see the Residential Lifetime Warranty and Care and Maintenance section of the Linnstone website at [www.linnstone.com/au/](http://www.linnstone.com/au/) for more information.

NAME OF PURCHASER		NAME OF DEALER/FABRICATOR	
SIGNATURE OF PURCHASER		SIGNATURE OF PURCHASER	
DATE		DATE	

Note: Please keep in mind that copies of our Residential Lifetime Warranty are available from the authorised fabricator. Some restrictions apply to the Residential Lifetime Warranty. For more information, go to [www.linnstone.com/au/](http://www.linnstone.com/au/).

## Lifetime Residential Warranty

Linnstone warrants that its material will be repaired or replaced if it fails due to a manufacturing defect when fabricated and installed by a Certified Fabricator within one year of the original date of installation. This warranty only covers the repair or replacement of failed materials that have been permanently installed in your home. Linnstone has the sole discretion to repair or replace the material. This warranty does not cover the cost of installation or fabrication.

The ORIGINAL OWNER of a single-family residence in which linnstone quartz surfaces were originally installed is eligible for this Residential Lifetime Warranty. This warranty is available to the "first" owner of a newly constructed single-family residence who purchases the residence with linnstone quartz surfaces permanently installed.

This warranty is officially published at [www.linnstone.com/au/](http://www.linnstone.com/au/). Linnstone reserves the right to update the warranty clause at any time at its sole discretion. However, you and linnstone are bound by the specific version of the warranty published on the original date of installation.

### Terms and Conditions

1. This warranty applies only to linnstone quartz surfaces and does not apply to any other products, including other quartz surfacing products manufactured or supplied by any other party.
2. This warranty only applies to linnstone quartz surfaces that have been permanently installed in the interior of single-family homes and have not been moved or altered since their initial installation. If you decide after or during installation that you do not like the colour or finish you chose, that subjective decision is not covered by this warranty.
3. This warranty excludes materials and/or services that have not been fully paid for.
4. This warranty only applies to materials that have been properly cared for in accordance with the Linnstone Quartz Surfaces Care & Maintenance guidelines. The Care & Maintenance instructions can be found at [www.linnstone.com/au/](http://www.linnstone.com/au/).
5. To request service under this warranty, contact the company that sold you the linnstone quartz surfaces or linnstone directly within thirty (30) days of the failure of the linnstone quartz surfaces.
6. After installation, you must register your product at [www.linnstone.com/au/](http://www.linnstone.com/au/) within thirty (30) days to activate your warranty. If there is no record of your warranty on file, you must provide proof of purchase in the form of a

copy of your original receipt or invoice that includes the owner's, authorised dealer's, and linnstone certified fabricator's names. Even if no register is on file, linnstone will fully honour this warranty upon receipt of your original receipt or invoice. You must agree to assist Linnstone or its authorised agents in inspecting the product and assisting us in performing our obligations under this warranty.

7. If linnstone quartz surfaces fail due to a manufacturing defect, linnstone will repair or replace such materials at its sole discretion. Linnstone will strive for the best outcome possible, whether we decide to repair or replace your product. An exact colour match, on the other hand, is never guaranteed.

8. All decisions regarding this warranty are made solely at the discretion of Linnstone and are final and binding on all parties. Linnstone does not authorise any representative, dealer, salesperson, distributor, fabricator, or other person to make any warranty or promise on its behalf.

9. This warranty expires when the property is transferred to subsequent parties. This warranty is not transferrable and does not cover claims made by subsequent homeowners.

## **Exclusions**

1. This warranty excludes use for commercial purposes. Commercial use includes, but is not limited to, use in a store, rental properties, offices, or other commercial establishments.

2. This warranty excludes products installed in outdoor areas.

3. This warranty does not apply to products used as flooring.

4. This warranty does not cover incorrect or abusive use. Improper use or abuse includes, but is not limited to, product mishandling, excessive heat or uneven exposure to weather conditions, physical or chemical abuse, and improper care and maintenance. Cleaning products such as oven cleaner, paint remover, and other similar products should not be used because they may damage the surface.

5. This warranty does not cover product chips or other excessive impact damage.

6. This warranty excludes scratches. Linnstone quartz surfaces are extremely hard and scratch resistant, but not scratch-proof. Proper care and maintenance must be exercised, including the use of a cutting board.

7. This warranty excludes routine maintenance. Minor conditions such as removing stains and water spots by following the techniques specified in the Linnstone Quartz Surfaces Online Care & Maintenance Guidelines at [www.linnstone.com/au/](http://www.linnstone.com/au/) are examples of routine maintenance.

8. This warranty does not cover failures caused by fabricators/installers failing to follow the linnstone-recommended fabrication and installation procedures. Fabrication and/or installation errors are solely the responsibility of the fabricator and/or installer.
9. This warranty does not cover any defects that were visible during fabrication and could not be avoided. Fabricators are required to inspect all materials visually before fabrication and again before installation.
10. This warranty excludes adhesives, caulk, and other accessory items, as well as seam appearance and performance. The shifting or movement of the substrate, cabinets, or foundation, as well as thermal shock, are the primary causes of seam separation or cracking after the product has been installed. When a hot pan, dish, or other receptacle or object is left on the benchtops for even a short time, thermal shock can occur. Trivets or hot pads should be used at all times. These issues are not considered material defects and are subject to the owner's proper care and maintenance.
11. This warranty excludes chemical damage.
12. This warranty excludes any abnormal use of the material, such as bending or curving.
13. This warranty does not apply to material that has been milled or thinned.
14. The installation of sinks, other plumbing fixtures, or appliances is not covered by this warranty.
15. This warranty does not cover mechanical fasteners inserted directly into the material.
16. This warranty does not cover any failures caused by insufficient installation support. This includes overhangs over linnstone's recommended support guidelines or an unsupported base.
17. This warranty does not cover any chips or cracks caused by "dry" cutting or polishing, as well as failing to meet the minimum requirements for edge details.
18. This warranty does not cover mitered edges where the joint has been improperly cut.
19. The alteration of any linnstone factory-applied finish is not covered by this warranty. Only colours marked "honed" in our brochure, sample book, or on our website are covered by this warranty. Any problems that arise as a result of "in-shop" honing are the sole responsibility of the fabricator.

20. This warranty does not cover temporary marks common to honed finishes, such as metal marks, fingerprints, or other signs of normal wear and tear. To receive coverage under this warranty, a signed "Special Care Considerations for Linnstone Quartz Surfaces Textured Finishes" form must be submitted to linnstone or its authorised representatives. The end-user/owner of the completed installation must sign this form.

21. This warranty does not cover any additional modifications or supplemental repairs that may be required to repair or replace the linnstone quartz surfaces covered by this warranty, such as structural changes, plumbing, electrical installation, tile, cabinets, flooring, and so on. The customer is responsible for the supply of these materials as well as the labour costs.

22. This warranty excludes natural variations in the colour, size, shape, and distribution of the natural quartz pattern, as well as natural variations in background tone. These characteristics are inherent and distinctive to the product. Colour samples provided to consumers, dealers, and fabricators are provided for reference purposes only and are not an exact replica of what will be installed in your home. We recommend that customers inspect the actual slabs to ensure that they receive the correct colours.

23. This warranty does not cover spots or blemishes smaller than 10 mm in size. A certain level of spots or blemishes is inherent in the manufacturing process and has no effect on the material's structural integrity.

24. On the back of each slab of Linnstone quartz surface, there may be important product information. The warranty will be void if this product information is removed.

25. Linnstone is not liable for any damage or injury caused by force majeure, job site conditions, architectural/engineering design or changes, structural movement/degradation, acts of vandalism, or accidents, in whole or in part.

26. In either contract or tort, Linnstone shall not be liable for any direct, indirect, consequential, incidental, special, exemplary, or punitive damages arising from the use or inability to use the products covered by this warranty. Because some states do not allow the exclusion or limitation of incidental damages, the limitations or exclusions listed above may not apply to you.

27. This warranty only applies to slab purchases and does not apply to pre-fabricated benchtops. The purchaser is solely responsible for thoroughly inspecting the pre-fabricated benchtops prior to fabrication. Linnstone will not accept any claims after pre-fabricated benchtops have been installed.



THE FOREGOING IS LINNSTONE'S COMPLETE WARRANTY AND SUPERSEDES ALL OTHER WARRANTIES AND REPRESENTATIONS, ORAL OR WRITTEN.

EXCEPT AS EXPRESSLY STATED ABOVE, NO OTHER WARRANTIES CONCERNING LINNSTONE ARE MADE BY WORDS OR CONDUCT.

LINNSTONE EXPRESSLY DISCLAIMS ALL WARRANTIES NOT EXPRESSLY STATED HEREIN, INCLUDING ANY WARRANTY THAT MAY EXIST UNDER NATIONAL, STATE, PROVINCIAL, OR LOCAL LAW, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SOME JURISDICTIONS OR LOCATIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO THESE LIMITATIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY BY LOCATION.

THIS WARRANTY IS INCLUDED IN THE SALES CONTRACTS YOU SIGNED.

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## Limited Commercial Warranty

Linnstone warrants that its installed products will be free of manufacturing defects in an interior, commercial use situation for ten (10) years after installation. If a manufacturing defect occurs during the warranty period, the warranty only covers the repair or replacement of the faulty linnstone quartz surfaces.

This warranty covers the repair or replacement of defective slab material. Linnstone is not liable for any additional labour costs associated with material repair or replacement, including but not limited to the removal, disposal, fabrication, installation, repair, or replacement of collateral items.

There is no warranty provided for materials produced or provided by other manufacturers.

Linnstone shall make all decisions regarding the existence of manufacturing defects or affecting this warranty, which shall be final and binding on all parties. Linnstone does not authorise any representative, dealer, salesperson, distributor, fabricator, or other person to make any warranty or promise on its behalf.

Linnstone shall have sole discretion whether to repair or replace the defective material in the event of a defect covered by this warranty. This warranty does not cover the cost of installation or fabrication. Without deviating from the preceding, replacement of a defective linnstone slab will be limited by inventory. Furthermore, the replaced slab may not be identical to the defective slab.

Any location open to the general public for business use is considered commercial property, as are private properties subject to residential or commercial rental or lease, or properties designated as hotels, motels, or other temporary residence applications.

This warranty is officially published at [www.linnstone.com/au/](http://www.linnstone.com/au/). Linnstone reserves the right to update the warranty clause at any time at its sole discretion. However, the specific warranty version published on the original date of installation is binding on you and linnstone.

### Conditions and Terms

1. This warranty is only valid for linnstone quartz surfaces. This warranty does not cover any other products, including quartz surfacing manufactured or supplied by a third party.
2. This warranty only applies to linnstone quartz surfaces that have been permanently installed in the interior of a commercial structure and have not been moved or altered since their initial installation.

3. The ORIGINAL OWNER of the commercial property who purchased and installed linnstone quartz surfaces is the recipient of this warranty. This warranty expires when the property is transferred to subsequent parties. This warranty is not transferrable and does not cover claims made by subsequent commercial property owners.
4. This warranty only applies to materials that have been fully paid for.
5. Unoccupied structures are not covered by this warranty.
6. Linnstone quartz surfaces must be cared for and maintained in accordance with the Linnstone Quartz Surfaces Care & Maintenance Guidelines. The Care & Maintenance instructions can be found at [www.linnstone.com/au/](http://www.linnstone.com/au/).
7. Only polished finishes are covered by this warranty. It is not applicable to honed or textured surfaces.
8. Colour samples provided to owner customers, fabricators, and installers may not be accurate representations of the actual stone. Natural quartz is used to create Linnstone quartz surfaces. Colour, shade, pattern movement, and grain size variations are quite common on this natural product. Samples are small pieces cut from a slab; they do not display all the characteristics of the actual slab. These properties are inherent in quartz stone. Colour samples are provided for reference purposes only and are not an exact replica of what will be installed on your property. We recommend that customers inspect the actual slabs to ensure that they receive the correct colours.
9. If linnstone quartz surfaces fail due to a manufacturing defect, linnstone will repair or replace such materials at its sole discretion. Linnstone cannot guarantee an exact colour match to a previously purchased product. Linnstone is not liable for any direct or indirect, consequential, incidental, punitive, or other similar damages arising from the use or inability to use the product covered by this warranty, including but not limited to lost use, lost profits, business interruption, and/or other losses.
10. The laws and regulations governing the design, engineering, and construction of installations vary greatly. Linnstone accepts no responsibility for the installation's selection, design, engineering, or construction.
11. In order to obtain service under this commercial warranty, the customer must provide proof of purchase in the form of a sales contract that shows the name of the commercial property's owner. Without proof of the original contract, this warranty is void.
12. To activate your warranty, you must register your product within thirty (30) days of installation. Visit [www.linnstone.com/au/](http://www.linnstone.com/au/) to complete the online warranty registration form. You must agree to assist Linnstone or its authorised agents in inspecting the product and assisting us in performing our obligations under this warranty.

## Exclusions

1. Linnstone quartz surfaces installed in outdoor areas are not covered by this warranty.
2. This warranty does not apply to linnstone quartz surfaces used as flooring.
3. This warranty excludes adhesives, caulks, and other accessory items, as well as seam appearance and performance. The shifting or movement of the substrate, cabinets, foundation, or thermal shock are the main causes of seam separation or cracking after the product is installed. When a hot pan, dish, or other receptacle or object is left on the benchtops for even a short time, thermal shock can occur. Trivets or hot pads should be used at all times. These issues are not considered material defects and are subject to the owner's proper care and maintenance.
4. This warranty does not cover any fabrication work performed by someone who is not a linnstone certified fabricator.
5. This warranty does not cover any abnormal use, conditions, or abuse. Damage from mishandling or misuse, damage from excessive heat or exposure to weather conditions, exposure to ultraviolet light, physical or chemical abuse, and damage from improper care and maintenance or failure to follow proper installation practises are all examples of abnormal use or conditions. Never use paint removers, strong alkaline, acidic, or oxidising substances, or pumice-containing products.
6. This warranty does not cover any additional modifications or supplemental repairs that may be required to complete the repair or replacement of linnstone quartz surfaces covered by this warranty, such as structural changes, plumbing, electrical installation, cabinets, tiles, and so on. The owner of the commercial property is responsible for the supply of these materials and labour costs.
7. Chips, scratches, thermal shock, impact damage, and chemical damage are not covered by this warranty. Linnstone quartz surfaces are highly scratch resistant, but not scratch proof. A cutting board must always be used when cutting directly on the surface. The Linnstone Quartz Surface Care & Maintenance Guidelines, available at [www.linnstone.com/au/](http://www.linnstone.com/au/), must be followed at all times.
8. This warranty does not cover mitered edges where the joint has been improperly cut.
9. The alteration of any linnstone factory-applied finish is not covered by this warranty. Any problems that arise as a result of "additional and/or in-shop honing" are solely the responsibility of the fabricator who performed the process and/or the owner who purchased the original linnstone quartz surfaces.

10. This warranty excludes any abnormal adjustments made to the material, such as bending, curving, thickness reduction, surface finish variation, or any other change to the original linnstone quartz surfaces.
11. This warranty does not cover any failures caused by insufficient installation support. This includes overhangs over linnstone's recommended support guidelines or an unsupported base. Fabrication and/or installation errors are entirely the responsibility of the fabricator/installer.
12. The installation of sinks, other plumbing fixtures, or appliances is not covered by this warranty.
13. A product that has been moved from its original installation location is not covered by this warranty.
14. Linnstone is not liable for any damages or injuries resulting from force majeure, job site conditions, architectural/engineering design or changes, structural movement/degradation, vandalism, or accidents.
15. On the back of each slab of Linnstone quartz surface, there may be important information. The warranty will be void if this product information is removed.
16. This warranty does not cover spots or "beauty marks" that are smaller than 16mm (5/8 inch). A certain amount of spots or "beauty marks" are inherent in the manufacturing process and have no effect on the material's structural integrity.
17. In order to receive service under this limited warranty, a linnstone authorised agent must be granted access to inspect the linnstone quartz surfaces being claimed. Linnstone requires complete cooperation from its agent in order to service this limited warranty. The findings of Linnstone shall be final and binding on all parties.
18. Except as expressly stated herein, Linnstone makes no other express or implied warranty, representation, or guarantee regarding its products. This is the only warranty offered by linnstone for its quartz surfacing materials.
19. No one, other than linnstone, is authorised to make any warranty or promise on linnstone's behalf regarding its materials.

THE FOREGOING IS LINNSTONE'S COMPLETE WARRANTY AND SUPERSEDES ALL OTHER WARRANTIES AND REPRESENTATIONS, ORAL OR WRITTEN.

EXCEPT AS EXPRESSLY STATED ABOVE, NO OTHER WARRANTIES CONCERNING LINNSTONE ARE MADE BY WORDS OR CONDUCT.

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NOTE: THE LOGOS "LINNSTONE" AND "LINNSTONE" ARE REGISTERED TRADEMARKS OF LINNSTONE PTY LTD OR ITS AFFILIATES.

All decisions regarding this warranty are to be made by linnstone. No distributor, fabricator, installer, or any person is authorized to make any warranty statements and promises regarding linnstone quartz surfaces.

Linnstone makes no other warranty, representation, or guarantee, express or implied, with respect to its products, except as expressly stated herein.

## Material Safety Data Sheet

### 1 Identification

**Product identifier**

Trade name: Quartz Surfaces

**Recommended use of the chemical and restrictions on use:**

Application of the substance / the preparation: Benchtops, Floorings, etc

**Details of the supplier of the safety data sheet**

Manufacturer/Supplier:linnstone

Full address: Unit 2, 113 Belmont Ave, Belmont WA 6104

Email: info@linnstone.com

Further information obtainable from: linnstone

**Emergency telephone number:**

Tel: 1300 366 979

### 2 Hazard(s) identification

**Classification of the substance or mixture**

Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 1 H372 Causes damage to the hearing organs through prolonged or repeated exposure.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

**Information concerning particular hazards for human and environment:**

The product has to be labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification system:**

The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.

**Label elements****Labelling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)****Hazard pictograms**

GHS07



GHS08

**Signal word** Danger**Hazard-determining components of labeling:**

Cristobalite

styrene

Tert-butyl 2-ethylperoxyhexanoate

**Hazard statements**

H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to the hearing organs through prolonged or repeated exposure.

**Precautionary statements**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P314	Get medical advice/attention if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazards not otherwise classified (HNOC)** No further relevant information available.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

**Description:**

Mixture of the substances listed below with nonhazardous additions. For the wording of the listed hazard statements refer to Section 16.

Composition:		
14808-60-7	Quartz	<93%
14464-46-1	Cristobalite Carc. 1A, H350	<50%
68476-25-5	Feldspar Eye Irrit. 2A, H319; STOT SE 3, H335	<50%
100-42-5	Polyster Resin Flam. Liq. 3, H226; Carc. 2, H351; Repr. 2, H361; STOT RE 1, H372; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	7-15%
60676-86-0	Glass & Mirrors	<50%
13463-67-7	Titanium Dioxide	<5%
2530-85-0	Coupling Agent Flam. Liq. 4, H227	<1%
3006-82-4	Curing Agent Self-react. C, H242; Skin Sens. 1, H317	<1%

## 4 First-aid measures

### Description of first aid measures

#### General description:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

#### After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** If symptoms persist consult doctor.

**Most important symptoms and effects, both acute and delayed** No further relevant information available.

### Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

### Suitable extinguishing agents:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

### Special hazards arising from the substance or mixture:

During heating or in case of fire poisonous gases are produced.

### Special protective equipment and precautions for firefighters

**Protective equipment:** Mouth respiratory protective device.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures:

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

### Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

### Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

## 7 Handling and storage

### Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

For the general occupational hygienic measures refer to Section 8.

### Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

### Conditions for safe storage, including any incompatibilities

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Keep receptacle tightly sealed.

## 8 Exposure controls/personal protection

### Components with limit values that require monitoring at the workplace:

14808-60-7 Quartz (<93%)	
PEL (USA)	Long-term value: 0.05* mg/m <sup>3</sup> *resp. dust; 30mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
REL (USA)	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction
14464-46-1 Cristobalite (<50%)	
PEL (USA)	Long-term value: 0.05* mg/m <sup>3</sup> *resp. dust; ½ value from resp.dust formulae Quartz
REL (USA)	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction
100-42-5 Polyester Resin(7-15%)	
PEL (USA)	Long-term value: 100 ppm Ceiling limit value: 200; 600* ppm *5-min peak in any 3 hrs
REL (USA)	Short-term value: 425 mg/m <sup>3</sup> , 100 ppm Long-term value: 215 mg/m <sup>3</sup> , 50 ppm
TLV (USA)	Short-term value: 20 ppm Long-term value: 10 ppm BEI, OTO

60676-86-0 Glass & Mirrors(<50%)	
PEL (USA)	20mppcf or 80mg/m <sup>3</sup> /%SiO <sub>2</sub>
TLV (USA)	TLV withdrawn
13463-67-7 Titanium Dioxide (<5%)	
PEL (USA)	Long-term value: 15* mg/m <sup>3</sup> *total dust
REL (USA)	See Pocket Guide App. A
TLV (USA)	Long-term value: 10 mg/m <sup>3</sup>

**Regulatory information**

PEL (USA): Guide to Occupational Exposure Values (OSHA PELs)

REL (USA): Guide to Occupational Exposure Values (NIOSH RELs)

TLV (USA): Guide to Occupational Exposure Values (ACGIH)

**Ingredients with biological limit values:**

100-42-5 Polyester Resin	
BEI (USA)	<p>400 mg/g creatinine                      Medium: urine                      Time: end of shift                      Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific)</p> <p>0.2 mg/L                      Medium: venous blood                      Time: end of shift                      Parameter: Styrene (semi-quantitative)</p>

**Additional information:** The lists that were valid during the creation were used as basis.

**Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.**

**Appropriate engineering controls:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

See Section 7 for information about design of technical facilities.

**Personal protective equipment:**

**Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

General Information Appearance: Form: Colour: Odor: Odor threshold:	Solid According to product specification Odourless Not available
pH-value:	Not available
Change in condition Melting point/Freezing point: Initial boiling point and boiling range:	Not available Not available
Flash point:	Not available
Flammability (solid, gaseous):	Not available
Auto-Ignition temperature:	Not available
Decomposition temperature:	Not available
Explosion limits: Lower: Upper:	Not available Not available
Vapor pressure:	Not available
Density: Relative density: Vapor density: Evaporation rate:	Not available Not available Not available Not available
Solubility in / Miscibility with Water:	Not available
Partition coefficient (n-octanol/water):	Not available
Viscosity: Dynamic: Kinematic:	Not available Not available
Other information	No further relevant information available.

## 10 Stability and reactivity

**Reactivity:** Data not available

**Chemical stability:** Data not available

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

**Acute toxicity:**

LD/LC50 values that are relevant for classification:		
100-42-5 Polyester Resin		
Oral	LD50	5,000 mg/kg (rat)
13463-67-7 Titanium Dioxide		
Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (rat)

**Skin corrosion/irritation:** Irritating effect possible.

**Serious eye damage/irritation:** Irritating effect.

**Respiratory or skin sensitization:** Sensitization possible through skin contact.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

### Carcinogenic categories

IARC (International Agency for Research on Cancer)		
14808-60-7	Quartz	1
114464-46-1	Cristobalite	1

100-42-5	Polyster Resin	2B
60676-86-0	Glass & Mirrors	3
13463-67-7	Titanium Dioxide	2B
100-42-5	Polyster Resin	2B
NTP (National Toxicology Program)		
14808-60-7	Quartz	K
14464-46-1	Cristobalite	K
100-42-5	Polyster Resin	R
OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

## 12 Ecological information

### Toxicity

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

**Other adverse effects:** No further relevant information available.

## 13 Disposal considerations

### Waste treatment methods

#### Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

#### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.



## 14 Transport information

UN-Number DOT, IMDG, IATA	Not applicable
UN proper shipping name DOT, IMDG, IATA	Not applicable
Transport hazard class(es) DOT, IMDG, IATA Class Label	Not applicable
Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
UN "Model Regulation":	Void

## 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

Section 355 (extremely hazardous substances):	None of the ingredients is listed.
Section 313 (Specific toxic chemical listings):	100-42-5 Polyester Resin
TSCA (Toxic Substances Control Act):	All components have the value ACTIVE.

**Proposition 65**

Chemicals known to cause cancer:		
14808-60-7 14464-46-1 100-42-5 13463-67-7	Quartz Cristobalite Polyster Resin Titanium Dioxide	
Chemicals known to cause reproductive toxicity for females:		None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males:		None of the ingredients is listed.
Chemicals known to cause developmental toxicity:		None of the ingredients is listed.
New Jersey Right-to-Know List:		
14808-60-7 14464-46-1 100-42-5 60676-86-0 13463-67-7	Quartz Cristobalite Polyster Resin Glass & Mirrors Titanium Dioxide	
New Jersey Special Hazardous Substance List:		
14808-60-7 14464-46-1 100-42-5	Quartz Cristobalite Polyster Resin	CA CA CA, F3, R2
Pennsylvania Right-to-Know List:		
14808-60-7 14464-46-1 100-42-5 13463-67-7	Quartz Cristobalite Polyster Resin Titanium Dioxide	
Pennsylvania Special Hazardous Substance List:		
100-42-5	Polyster Resin	E

**Carcinogen categories**

EPA (Environmental Protection Agency)		None of the ingredients is listed.
TLV (Threshold Limit Value established by ACGIH)		
14808-60-7	Quartz	A2
14464-46-1	Cristobalite	A2
100-42-5	Polyster Resin	A4
13463-67-7	Titanium Dioxide	A4
NIOSH-Ca (National Institute for Occupational Safety and Health)		
14808-60-7	Quartz	
14464-46-1	Cristobalite	
13463-67-7	Titanium Dioxide	

**16 Other information**

**Relevant hazard statements**

- H226 Flammable liquid and vapor.
- H227 Combustible liquid.
- H242 Heating may cause a fire.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H350 May cause cancer.
- H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H372 Causes damage to the hearing organs through prolonged or repeated exposure.

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In addition, the contents of this Safety Data Sheet must not be interpreted as a recommendation to use any product in violation of the laws, safety practices or patents in force on any material or its use. It is the responsibility of the recipient of our product to check the corresponding rules and regulations. Under no circumstances does the data contained in this Safety Data Sheet constitute a guarantee of specific properties or create any contractual relationship. This version is based on the format for the United States. Contact your local authority if an emergency occurs.

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Liq. 4: Flammable liquids – Category 4

Self-react. C: Self-reactive substances and mixtures – Type C/D

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 1A: Carcinogenicity – Category 1A

Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

**Receipt Form**

**Please complete and return this page to:**

LINNSTONE PTY LTD

Unit 2, 113 Belmont Ave, Belmont WA 6104

**Receipt Form**

The undersigned has received the Linnstone Quartz Surfaces Product Manual and acknowledges receipt.

Fabricator's Company Information:

**Company Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Country:** \_\_\_\_\_

**Telephone Number:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

Please carefully read the Linnstone Quartz Surfaces Product Manual. You must strictly adhere to all applicable local laws and regulations. We also recommend that you consult with your local occupational health professional and other advisors about the applicable laws, regulations, and recommended safety precautions.





[www.linnstone.com/au/](http://www.linnstone.com/au/)  
[info@linnstone.com](mailto:info@linnstone.com)

Unit 2, 113 Belmont Ave, Belmont WA 6104