



LINNSTONE  
QUARTZ SURFACES  
PRODUCT MANUAL

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## Introduction

Linnstone delightedly brings premium quartz surfaces to enrich your unique space. Every piece of linnstone quartz surface is carefully produced and inspected to meet and exceed customers' expectations by blending high-quality natural quartz with resin and pigments. Distinctive and diversified design style provides you with more choices of decorative effects. Linnstone provides a Residential Lifetime Warranty and Commercial Limited Warranty to the end users purchasing countertops from certified fabricators regarding the quality of slab. Any failure by a fabricator to comply with the recommended methods of fabrication of countertops 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 delightedly brings premium quartz surfaces to enrich your unique space. Linnstone quartz surfaces are premium quartz surfaces blending high-quality natural quartz with resin and pigments, which can be applied in residential and commercial interior decoration including kitchen countertops, bathroom vanities, office tables, wall panels, 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

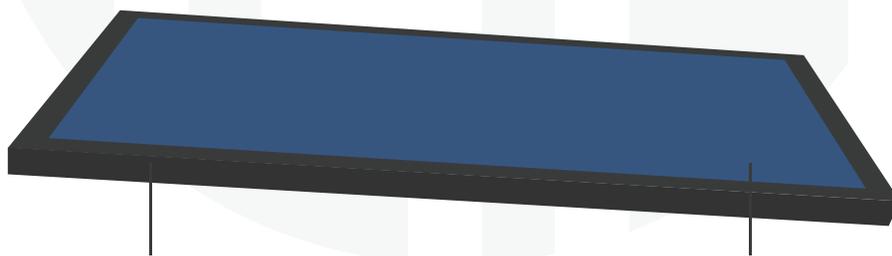
Linnstone quartz surfaces are available in sizes as listed below:

Quartz slab size: 127 \* 64" (3230 \* 1630 MM), 139\*80" (3530\*2030 MM)

Quartz Thickness: 3/4" (20 MM), 1 1/4" (30 MM)

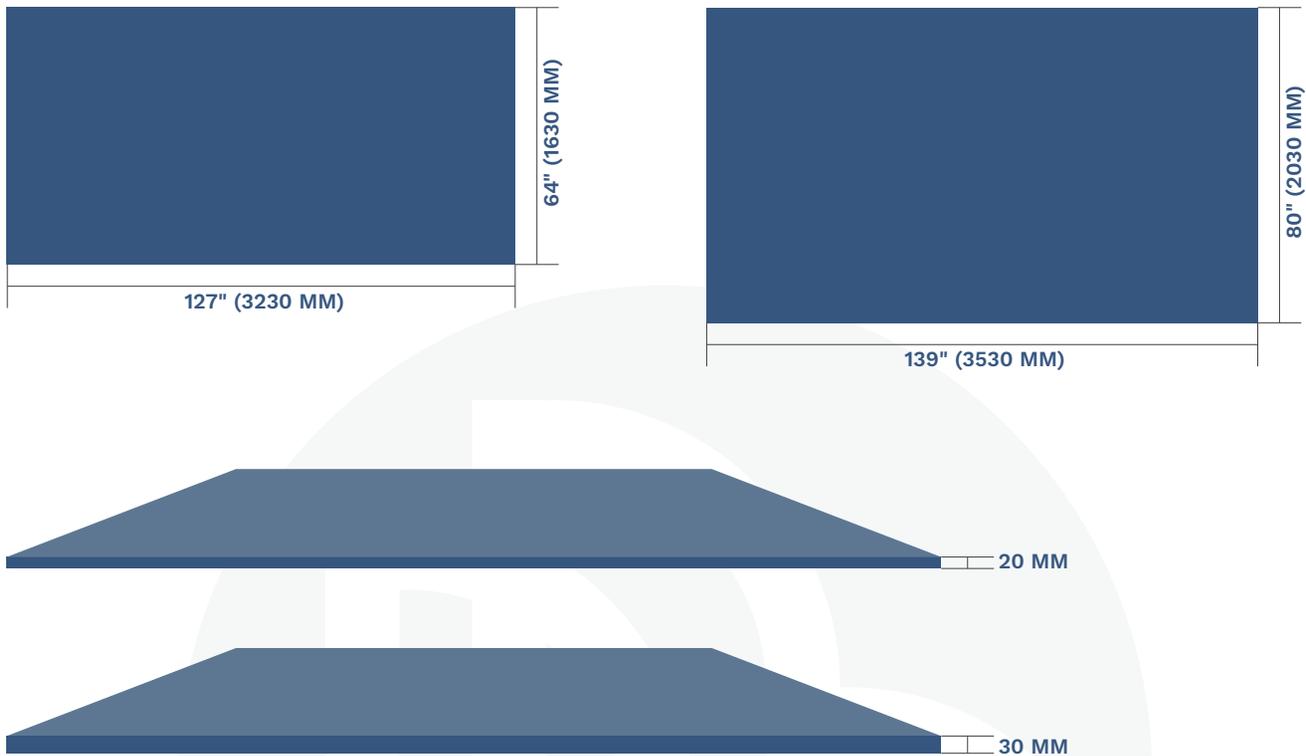
NOTE: Not all colors are available in all sizes and thicknesses.

The slab dimensions are used for reference of storage and transportation purposes. Actual availability varies from slab to slab. It should be checked that the gray area around the perimeter for color, polish, transportation damage, or any other defect that may be visible for the maximum availability width and length of the slab. If the slab proves to be inappropriate, it should be replaced with another before cutting.



Be careful if using the gray-shaded area of the slab. It should be thoroughly inspected before fabrication. This area is going to be different from slab to slab and side to side.

The blue area represents the primary usable area of the slab.



## Handling

The slabs are best loaded/unloaded from a container or truck with a forklift or lifting equipment able of handling at least 2,000 lbs. (900kg). Due to weight, appropriate safety shoes and gloves should be worn. 2cm material weighs 759 lbs. (344kg). 3cm weighs 1138 lbs. (516kg).

## Vehicle Loads

It is the driver's responsibility to ensure the load is within the legal weight limit of the vehicle. We can't determine this at our premises. As a guideline, you must 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.

## Securing the Load

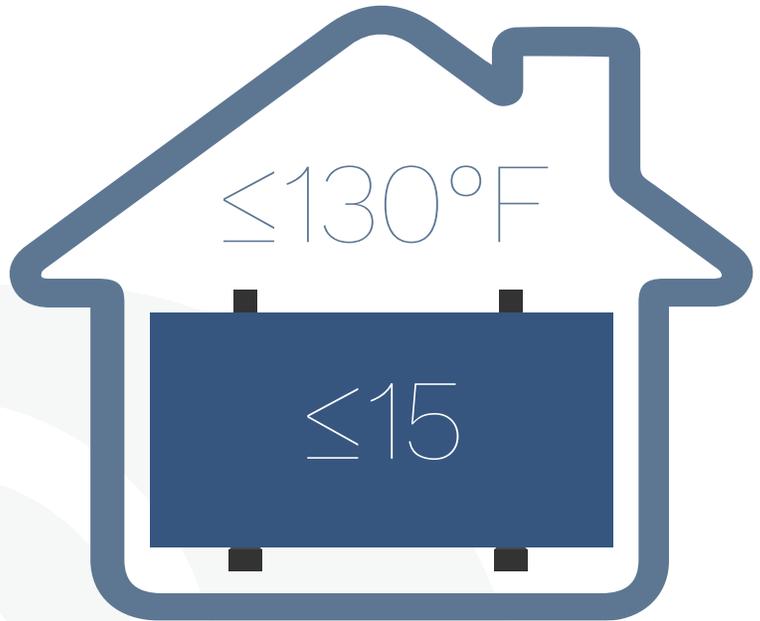
It is the driver's responsibility to ensure that the goods are adequately supported and securely secured to the vehicle before leaving our premises.

**Storage**

Storing slabs in a manner that prevents warping. Use at least two support beams to hold the slabs in place. There should be no more than 15 slabs to each rack with the slabs face-to-face and back-to-back.

It is important to fasten slabs with straps in the early stages to keep them from warping as well as maintain a safe working environment. In addition, polished slabs should not expose to the sun as UV rays can damage the internal slabs structures.

It is necessary to keep the last slabs in each rack in a position in which the backside is facing out. Storage temperatures should not exceed 130°F.



No more than 15 slabs to each rack with the slabs face-to-face and back-to-back. Storage temperatures should not exceed 130°F.

**Visual Slab Inspection**

When using linnstone quartz surfaces, visual inspection for defects or color matching is necessary before cutting.

- Cracks**
- Color variation**
- Pits**
- Thickness tolerance**

- Flatness**
- Polishing Marks**
- Scratches**
- Residual Color**

- Gloss**
- Black Dots**
- Voids**
- Color Pigments**

We will not accept any of the above claims if the slab is modified in any way. The fabricator is responsible to determine whether the slabs are suitable for use. If not, it should be exchanged before cutting or modified.

**Color Match & Pattern Irregularity**

One of the basic elements of slab inspection is checking for a color match before cutting. Due to the innate and complex mixture of natural minerals, slabs for color variations may arise from different production cycles. Visual inspection is important to confirm color consistency.

Linnstone quartz surfaces show random distribution throughout each slab. If any irregular grain distribution in the slab, the fabricator must determine if the slab is fit for purpose. If not, the slab should be replaced before cutting.

### Product 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 obvious damage
Surface Burning	ASTM E84	Class A
Thermal Shock	ASTM C484	No visible defects
Thermal Conductivity	EN 12664:2001	0.469 - 0.504 W/(m/K)
Chemical Resistance	ASTM C650	Not affected

NOTE: The values quoted above are an average range of values of the different products tested and should be considered as an indication only.

## Guideline for Respirable Crystalline Silica Health Hazards & 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:

Provide information on the risks and hazards associated with working in an environment with respirable crystalline silica are created.

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 Crystalline Silica

Crystalline silica is a common mineral found in the earth's crust. Materials like sand, stone, concrete, and mortar contain crystalline silica. It is also used to make products such as glass, pottery, ceramics, bricks, and artificial stone.

Respirable crystalline silica – very small particles at least 100 times smaller than ordinary sand you might find on beaches and playgrounds – is created when cutting, sawing, grinding, drilling, and crushing stone, rock, concrete, brick, block, and mortar. Activities such as abrasive blasting with sand; sawing brick or concrete; sanding or drilling into concrete walls; grinding mortar; manufacturing brick, concrete blocks, stone countertops, or ceramic products; and cutting or crushing stone result in worker exposures to respirable crystalline silica dust. Industrial sand used in certain operations, such as foundry work and hydraulic fracturing (fracking), is also a source of respirable crystalline silica exposure. About 2.3 million people in the U.S. are exposed to silica at work.

Workers involved in manufacturing, finishing, and installing natural and manufactured stone countertops are at risk for significant crystalline silica exposure. Crystalline silica commonly occurs in nature as the mineral quartz and is found in granite, sandstone, quartzite, various other rocks, and sand. Workers who inhale very small crystalline silica particles are at risk for silicosis – an incurable, progressively disabling, and sometimes fatal lung disease.

Silicosis results in permanent lung damage. Silica dust particles become trapped in lung tissue, causing inflammation and scarring and reducing the lungs' ability to take in oxygen. Symptoms of silicosis can include shortness of breath, cough, and fatigue, and may or may not be obviously attributable to silica. Workers exposed to airborne crystalline silica also are at increased risk for lung cancer, chronic obstructive pulmonary disease (COPD), and kidney disease.

### **Work Operations Releasing Crystalline Silica Dust**

Finished manufactured stone products, including finished countertops, do not present a health hazard themselves. However, cutting, grinding, chipping, sanding, drilling, and polishing natural and manufactured stone products can release hazardous levels of very small, crystalline silica dust particles into the air that workers breathe. Working with ground quartz in the countertop manufacturing industry can also expose workers to dangerous silica dust.

Workers operating powered hand tools, such as saws, grinders, and high-speed polishers, have some of the highest silica dust exposures in the countertop manufacturing, finishing, and installation industries. These exposures come from dry cutting, grinding, edging, and contouring stone, and may occur in shop environments as well as on job sites where finishing work is completed.

In the manufactured stone industry, workers may also be exposed to silica dust when opening bags of ground quartz, moving or mixing bulk raw materials, cleaning and scraping mixers, or cleaning dust collector baghouses.

Workers performing other tasks in areas close to where silica dust-generating operations occur may also be exposed. Without proper engineering controls, such as water sprays or local exhaust ventilation (LEV), and personal protective equipment (PPE), where appropriate, workers can inhale silica-containing dust from these operations.

### **What is OSHA**

The Occupational Safety and Health Administration (OSHA) is a large regulatory agency of the United States Department of Labor that originally had federal visitorial powers to inspect and examine workplaces. OSHA's mission is to "assure safe and healthy working conditions for working men and women by setting and enforcing standards and by providing training, outreach, education, and assistance".

### **Prevention Measures**

The Occupational Safety and Health Administration (OSHA) and the National Institute for Occupational Safety and Health (NIOSH) have identified exposure to silica as a health hazard to workers involved in

manufacturing, finishing, and installing natural and manufactured stone countertop products, both in fabrication shops and during in-home finishing/installation. This hazard can be mitigated with simple and effective dust controls in most countertop operations.

Engineering controls and work practices provide the best protection for workers and must be implemented first before respiratory protection is used. Working with industry partners, NIOSH and OSHA have identified the following control options for countertop manufacturing, finishing, and installation operations:

#### **Engineering controls and equipment changes for manufacturing and finishing**

1. Use water spraying systems and remote-controlled tools at the impact site where a saw or grinder generates dust.
2. Large bridge or gantry-like saws usually use water sprays and can be remote-controlled for dust control and cooling.
3. Hand-held angle grinders can be modified to deliver water to the point of contact with the stone.
4. Wet-edge milling machines or stone routers can replace dry grinders in shops. They provide a clean edge profile with a diamond wheel.
5. Use hand tools (e.g., drills, masonry saws, grinders) equipped with a shroud and a vacuum with a high-efficiency particulate air (HEPA)-filter when wet methods are not practicable.
6. Install LEV systems at fixed locations to capture dust at its point of origin.
7. Use a combination of both water and ventilation controls, if necessary.

#### **Work practices**

1. Use wet sweeping or HEPA-filtered vacuuming instead of dry sweeping or compressed air.
2. Replace water and air filters as needed to control dust.
3. Adjust water flow as necessary to control dust, following manufacturers' recommendations for water flow rates.
4. Pre-wash stone slabs prior to cutting.
5. Implement regular and thorough housekeeping procedures for water slurry and settled dust.
6. In high exposure areas, such as where cutting or polishing work generates silica dust, provide HEPA-filtered vacuums for cleaning worker clothes and water for hand, face, and hair cleaning.

#### **Identify and isolate remaining dust-generating operations**

1. Through air monitoring, identify high exposure activities associated with countertop finishing operations. These likely involve angle grinding, other types of grinding, and cutting with saws.
2. Isolate the silica dust-producing operation(s) using enclosures or walls. Enclosures are more effective when used with LEV.
3. Alternatively, enclose the person, if possible, by putting him or her in a control booth.
4. In some severe cases, it may be necessary to isolate some finishing tasks in separate areas. This may be needed more frequently for manufactured stone because of its high silica content.

#### **For installation operations in commercial and residential spaces**

1. Do as much work as possible under controlled shop conditions instead of on-site, or perform work outdoors or in well-ventilated areas to reduce respirable crystalline silica dust exposure.
2. Wet methods for dust control may not be practicable on or near finished cabinets, walls, and floors, so other suppression methods (e.g., LEV) should be used during these operations.
3. Use grinding and drilling tools equipped with dust shrouds coupled with LEV and a HEPA filter. Controls can be either tool mounted (drills) or attached to a vacuum system.
4. Use a HEPA-filtered vacuum to clean up dust as soon as practicable.

**Provide respiratory protection when it is needed to protected workers**

When engineering and work practice controls do not limit silica exposures to OSHA's PEL, employers must provide workers with respirators. Whenever respirators are required, the employer must have a respiratory protection program that meets the requirements of OSHA's Respiratory Protection standard (29 CFR 1910.134). This program must include proper respirator selection, fit testing, medical evaluations, and training.



The workers shown above are wearing a NIOSH-approved N95 filtering facepiece respirator (left), a full facepiece elastomeric respirator (center), and a loose-fitting powered air-purifying respirator (PAPR) (right).

If respirators are provided, use at least a NIOSH-approved N95 respirator. If the silica level is more than 10 times the PEL, a half-face respirator is not protective enough and a respirator that offers a greater level of protection, such as a full-facepiece respirator that will protect workers at silica levels up to 50 times the PEL, must be used. Powered air-purifying respirators (PAPR) also provide more protection than half-face air-purifying respirators. In general, workers find PAPRs to be more comfortable than pressure-demand respirators, including tight-fitting elastomeric varieties.

**Provide training and information to workers about the hazards of silica and other chemicals**

OSHA's Hazard Communication standard requires that employers provide their workers with training and information about hazardous chemicals used in the workplace. Employers must provide training and information to workers in a manner and language that the worker can understand. Employers must:

1. Prepare and implement a written hazard communication program.
2. Provide training and information on the hazards of silica and other chemicals used in the workplace.
3. Provide workers access to Safety Data Sheets (SDSs) on silica and other hazardous chemicals they are exposed to during countertop manufacturing, finishing, and installation.
4. Ensure that each container of hazardous chemicals is labeled appropriately.

**Consider medical monitoring for workers who are exposed to silica**

As part of its National Emphasis Program on Silica, OSHA recommends that employers provide medical exams to all workers who may be exposed to silica levels at or above one-half the PEL. Recommended medical tests include:

1. A medical exam that focuses on the respiratory system and includes work and medical history.
2. A chest X-ray, evaluated by a qualified professional.

## Disclaimers

The information of Respirable Crystalline Silica Health Hazards & Protection mentioned above is an excerpt from OSHA. 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 OSHA (Occupational Safety and Health Administration) for reference. Fabricators can operate according to the actual situation of respective countries and regions.

## Fabrication Instructions

### Tools and Safety Equipment

It is important that all fabricators have essential tools and safety equipment to efficiently produce finished products. The following is a list of required or recommended tools:

**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

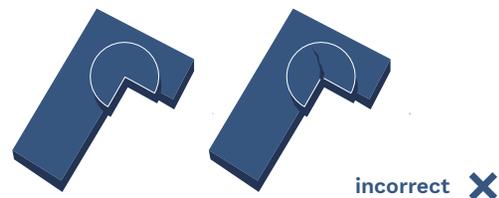
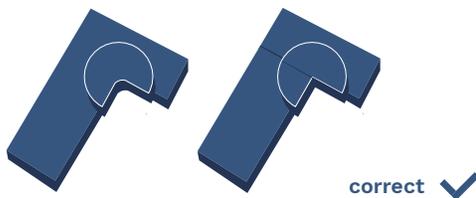
**Basic Safety Equipment**

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

### Basic Fabrication Guidelines

In order to ensure high-quality products, the following guidelines should be followed:

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



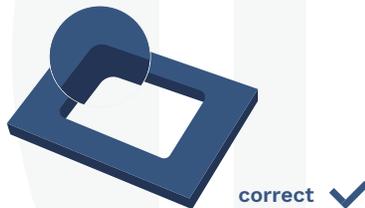
## Insider Corners

Regarding an angular-shaped kitchen ((L- or U-shaped), the surfaces of the countertop should be fabricated from a single slab. The interior corners must have a minimum  $\frac{3}{8}$ " radius.

## Cutouts

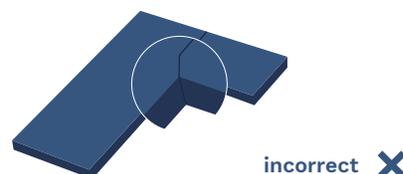
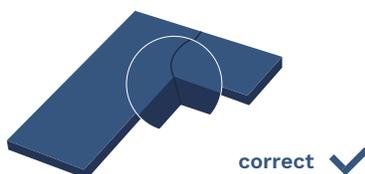
1. If the distance between the cutout and a joint is less than 6", the area needs to be supported. This can be achieved by ensuring that all joints are placed at the joint of the base cabinet or by installing a solid slat under the joint.
2. Damage to the drilling area may result in subtle cracks at stress points. All cuts should be made using wet diamond cutting tools to avoid generating excessive heat, which could also cause hairline cracks.
3. Always allow an extra  $\frac{1}{8}$ " between the device and the edge of the cutout for expansion.
4. Cross-cutting should be avoided. Always using a core bit when preparing a cutout.

NOTE: Chiseled or hammered edges are not approved edge details.



## Seams

1. All seams are levered by adjusting the material before adhesive sets.
2. Do not surface polish seams to make them even/level.
3. If a straight seam is not used, any internal angled corner in the seam must have a  $\frac{3}{8}$ " radius.
4. Use a state-of-the-art seam setting tool to keep the seams as narrow and unobtrusive as possible. The seams width shall not exceed  $\frac{1}{16}$  ".



## Edge Detail

1. All exposed edges must be made to the same finish as the surface and all edges must have a minimum edge profile of 3-4 mm (1/8”).
2. The top and bottom of edges must be rounded or beveled and our preferred edge detail is a Pencil Round edge.
3. The larger the surface area of the edge, the more resistant it is to chipping.
4. For areas with high traffic/abuse, linnstone suggests that the edge details have a minimum of 5 mm (3/16”) radius on both top and bottom, and a minimum of 6 mm (1/4”) on outside corners.

## Polishing Edge Profiles

The edge profile of any linnstone quartz surfaces should be polished in a gradual manner, only granite or marble diamond polishing pads. Linnstone recommends a superior pad and the use of sufficient water for best polishing results. Linnstone quartz surfaces should be polished from smooth, clean as well as free from any residual adhesive. Care must be taken not to over-polish edges beyond the factory surface polish.

Recommended linnstone quartz surfaces polishing process:

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

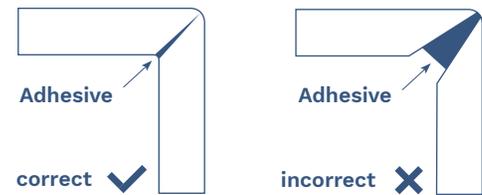
These recommendations are a guideline for achieving a polish equal to the factory surface polish. The type of tools, manufacturing techniques, and diamond pads will affect the actual polishing results. When polishing the edge profile, use water-cooled tools as the dry-polishing profile may cause overheating, making the edge prone to chipping. Overheat undermines the slab’s physical structure, although invisible to the naked eye, micro-fissures are formed, resulting in chipping upon impact, discoloration, and an uneven polish. Here are some suggestions for reference.

3. Do not use stone “buff” pads on linnstone quartz surfaces.
4. Do not over-polish edge details beyond factory surface polish.
5. Use lower RPM to be used on polishers when using 1000-grit or higher diamond polishing pads.

## Mitered Edges

1. Mitered edges should be made at a 45° angle to ensure maximum strength. The joint should be clean, flush, and parallel.
2. Chipping is most prevalent where the application of the adhesive is not evenly distributed throughout the joint.
3. Mitered edges have the largest area of weakness and are most prone to chipping. (Our recommended minimum edge profile is a 1/8” bevel. Our preferred minimum edge profile is a 1/8” (3–4mm) Pencil Round edge.)

4. Incorrect angles limit the type of edge that can be generated as the larger the edge profile, the larger the visible joints.
5. Do not cut edges at less than 45° as this will make the edge vulnerable to physical damage such as chipping.
6. Make sure the adhesive is thoroughly distributed throughout the joint for maximum strength.



## The Practice of Polishing Finish Edges

To achieve best-textured appearance, here are some procedures:

1. Before polishing, cut the surface into the required pieces/segments.
  2. Using clamps and attach all pieces required for the final design to a suitable working surface.
  3. Glue before polishing if needed to glue the edges.
  4. Cut or shape the required edge profile.
  5. Smooth and polish the edge shape, following standard polishing procedures and according to regular levels – up to a maximum of 100–120 grain.
  6. Using a great amount of water to achieve polishing of texture finish surfaces.
- Polishing a texture finish edge will require approximately the same amount of time as polishing a regular edge.
7. 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.
  8. Using movements similar to those used when polishing a regular edge when polishing the textured finish.
  9. Change the brush to a 120 grain and polish until there are no visible marks remaining of the 60-grain brush.
  10. Repeat with 400, 800, and 1600 grain brushes above until the edges match the surface texture.

## Adhesives

Using flexible adhesives is essential, such as 100% clear silicone adhesive be used to secure the countertops to the cabinets, substrate, or to secure linnstone quartz surfaces backsplashes to the wall. This will allow for limited thermal expansion. Epoxies, liquid nails, or construction adhesive, and other non-flexible adhesives do not compensate for thermal expansion. Linnstone quartz surfaces will not warrant any claims for cracks that are the result of tops being bonded to the base cabinets with non-flexible adhesives. Therefore, follow the stone adhesive manufacturer's instructions. Follow good stone working and safety practices at all times.

## Seaming & Laminations

Linnstone requires that all fabricators follow the individual manufacturer’s instructions for the use of their seaming adhesives, including but not limited to the minimum working temperatures for their product. Failure to follow the prescribed instructions will void the linnstone quartz surfaces warranty. Linnstone recommends the use of a polyester resin knife-grade adhesive as well as the Integra Estone 101 & Tri-Bond 30 cartridge system for all seaming and laminations.

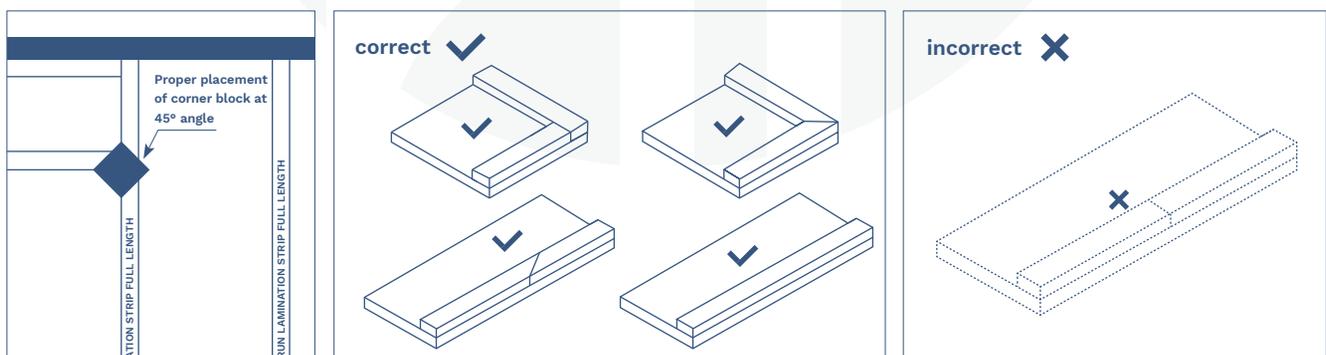
## Joint Adhesives

The adhesive used must be pigmented to a color similar to that of the material being installed which can be achieved by using color paste pigments mixed with the adhesive.

## Laminations/Double Edges

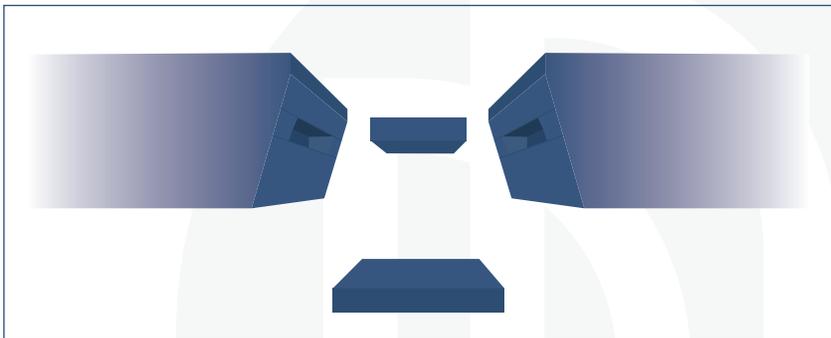
It is important to make sure that the lamination piece is the full length of the top piece and cut at 45° on the corners when laminating. If it is impossible and a joining of the lamination pieces is unavoidable, the joint must be cut at 45°. Mitered end cut can be used for reducing stress on the material that may cause stress fractures. The laminating strips should be cut from the same slab as the countertop surface material to ensure consistent color. When cutting the piece to be laminated, it is recommended to add the lamination piece size to your cutting measurements to make sure you will have the same color piece and same length for your lamination.

1. Use full-length lamination pieces.
2. A 45 ° corner joint is recommended to minimize the stress on corners.
3. For very long countertops where a joint is required, ensure that the joint in the lamination piece is at 45 ° to reduce any stress points.



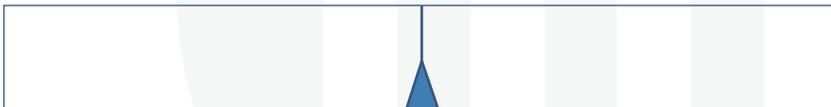
### Seaming

1. All seam surfaces should be smooth and free of debris.
2. Use the advanced seam setter tool to minimize seams. Seams should not more than 1/16” wide.
3. Linnstone quartz surfaces require the use of colored glue for all seams which can be done by using one of the premixed Integra colors available or by manually tinting the glue of your choice.
4. Never install mechanical fasteners (screws, nails, etc.) into linnstone quartz surfaces.
5. Linnstone quartz surfaces should not be allowed the surface polishing of seams.
6. Grooves should be created on the surfaces to be attached to make room for glue. Additional glue should be placed at all corners and around joints. Please refer to picture A and B for details.



Picture A

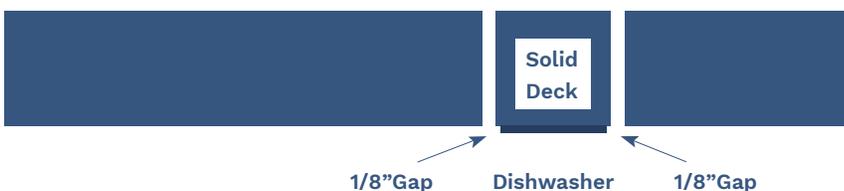
The illustration shows the use of a beveled edge and biscuit joint to strengthen the seam. If using this technique, be sure to bevel only the seaming edge up to 1” behind the exposed surfaces.



Picture B

### Joint Positions Seam over dishwasher (not recommended)

1. If the seams must be located above the dishwasher, use full deck-isolated support is needed. This will allow appropriate support and allowances for thermal movement.
2. When installing 3/4” (2cm) material the plywood sub-top over the dishwasher must be isolated from the rest of the sub-top. This should be done by allowing 1/8” clearance on either side of the full deck support.
3. It is necessary to grind notches or grooves on the surfaces to be bonded together on seams, miters, and lamination areas. Linnstone quartz surfaces are nonporous and will not absorb the adhesive – these notches provide a space for the adhesive within the joint.



## Transportation

Since the stone itself is very heavy and fragile, portability must be taken into account when packaging and transportation. Here are three tips to refer to:

1. Brace all cutouts to avoid flexing of the seams and corners.
2. Make sure the surface of the slabs is always protected and not touching metal, the back of other slabs.
3. Transport linnstone quartz surfaces with sections touching face-to-face or back-to-back.
4. A removable “A” frame can be used for stone slab transportation as it can hoist off the delivery vehicle.
5. The slabs should be securely fastened to the rack by straps.
6. There should be a protective layer between the rack and linnstone quartz surfaces as it can prevent damage during storage and transportation.
7. At least two people are needed to transport the product to the site by the delivery vehicle.

## Installation Instructions

### Preparing Base Units/Cabinets

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

NOTE: If the cabinets do not meet the minimum standards, the homeowner or project manager should be notified to present at the job site by the installer before installing tops.

### Support

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

1. Linnstone quartz surfaces must be supported on a strong perimeter frame.
2. Front-to-back support within the cabinet should be provided every 24".
3. Plan for front-to-back support strips 2.5"-wide (40mm-100mm) to coincide with cutouts and periodic support.
4. Support is needed across the top of a dishwasher space and over an under-counter oven.
5. Support must be provided under all countertop joints.

### Overhangs

The overhangs of linnstone quartz surfaces require support. The following guidelines are for standard cabinets 24" in-depth:

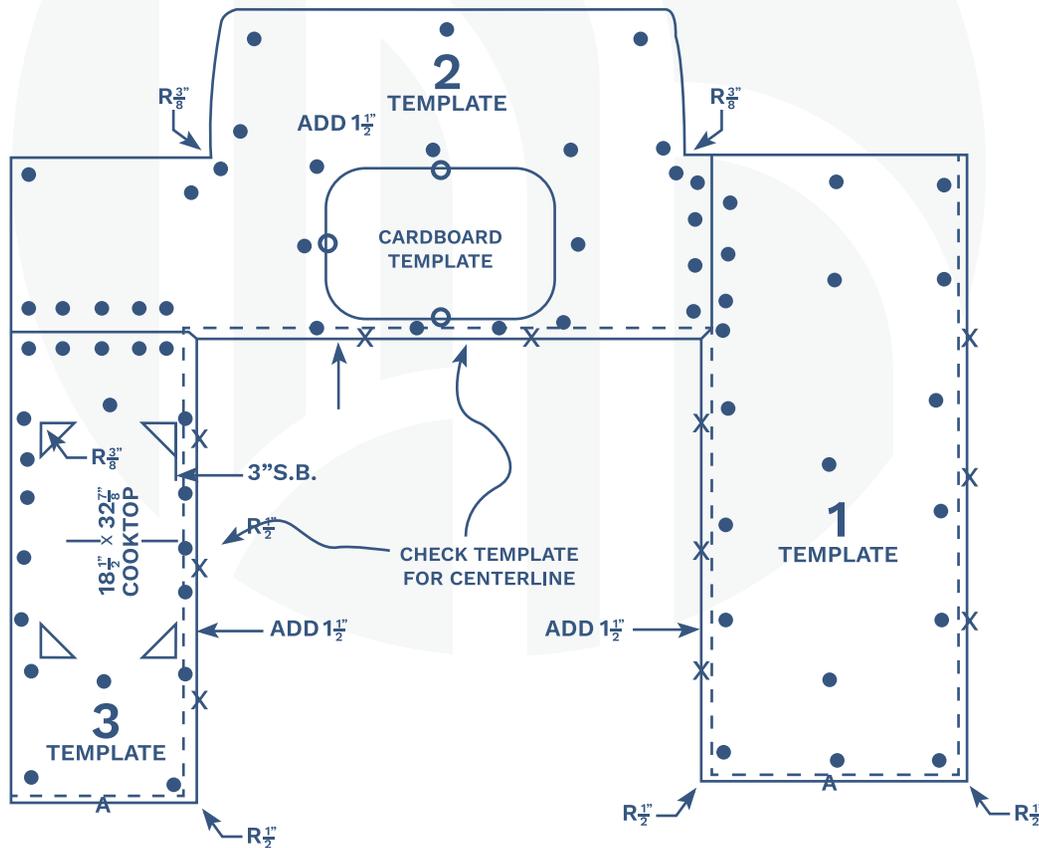
2CM (3/4")	2CM (3/4") with 5/8" sup top	3 CM (11/4")	MATERIAL SUPPORT REQUIRED
Less than 8" (200mm)	Less than 12" (300mm)	Less than 16" (400mm)	No additional support required.
8-16" (200-400mm)	12-20" (300-500mm)	16-24" (400-600mm)	Brackets required at 24" (600mm) intervals.
Over 16" (400mm)	Over 24" (500mm)	Over 24" (600mm)	Legs, Columns or Panels required at 24" (600mm) intervals.

**Fitting**

1. Linnstone quartz surfaces need room to expand so there should always be space. Each countertop requires at least 1/8 "expansion and contraction in each wall.
2. Mechanical fasteners (screws, nails, etc.) should never be fixed directly to linnstone quartz surfaces. Bolted connection is allowed.
3. When affixing the linnstone quartz surfaces to the supports, use only dabs of flexible silicone 8–12" apart. The extra adhesive must be placed along all joints and cutouts.

**Countertop Adhesive**

We only recommend using 100% silicone adhesive for affixing the linnstone quartz surfaces onto the cabinets and for all supports.



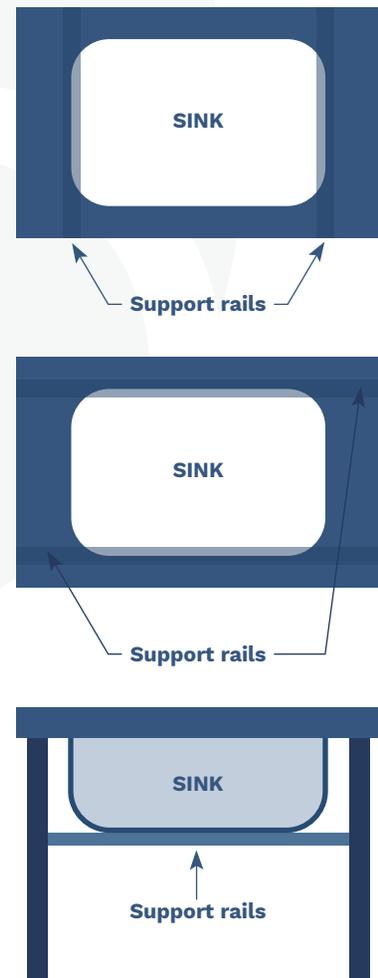
## Securing of Countertops

1. Fix top using dabs of silicone 8–12” apart.
2. Support is required on overhangs over 8” (200mm) for ¾” (2cm) thick slabs and 16” (400mm) on 1¼” (3cm) slabs.
3. Use extra silicone on all corners, joints, and around all cutouts.
4. Join the seams together with a color-matching adhesive.
5. Radius all inside corners on all cutouts.
6. Allow for extended space between the tops and walls.
7. Do not undercut corners.
8. Before installing the tops, all cabinets must be leveled and supported.
9. If the cabinets are on adjustable legs, make sure that all legs are evenly tensioned to prevent any movement.

## Sinks and Basins

We recommend you follow the sink manufacturers’ recommendations for all sink or basin installations, no matter top-mount or under-mount.

1. For under-mount installations, follow the minimum edge profile recommendations around the cutout to reduce the risk of chipping. Our recommended minimum edge profile is a 1/8” bevel. Our preferred minimum edge profile is a 1/8” (3–4mm) Pencil Round edge.
2. Twin basin installations (Top- or Under-mount), where the tap hole is in the countertop, require extra care to ensure that there is sufficient material left for strength.
3. In order to prevent stress points in the top, all sink cutouts must be made using drilled radius corners (minimum 3/8”).
4. We recommend that all sink installations be fully supported independently of the top of linnstone quartz surfaces. Be sure to use a professional sink-setter or support rail system. Plan for front-to-back support strips 2.5”-wide (40mm–100mm) to coincide with cutouts and periodic support. All countertop joints must be supported.
5. Never install mechanical fasteners (screws, nails, etc.) into linnstone quartz surfaces.

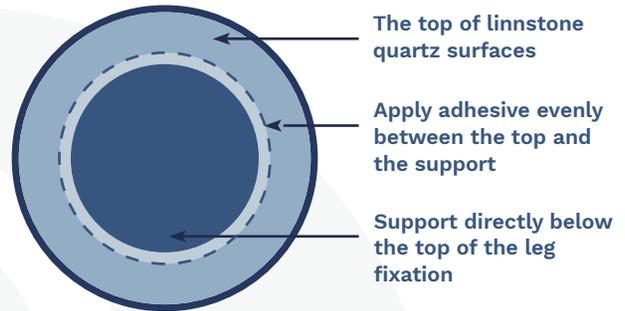


**Under-mount sink installations**

1. All under-mount sinks should be sealed with 100% silicone on the countertop.
2. All under-mount sink cutouts must have the inside edges polished to match the surface.

**Table Tops**

If you are using linnstone quartz surface as a freestanding tabletop, pay attention to the method by which the top is secured to the base. This is the most important when the table has only one central leg to support it. A silicone adhesive may be too flexible to adequately secure the top of linnstone quartz surfaces to the base. Linnstone would recommend using a stronger, harder adhesive such as building adhesive like polyurethane [Sika-Flex] that is strong yet still flexible to ensure that the top is properly fixed to the base.



**Wall Applications**

The structural requirements of linnstone quartz surfaces require that the walls covered be strong, safe, and hard and comply with all applicable laws and engineering practices. Linnstone recommends only the use of latex thin-set mortar adhesive or epoxy adhesive and grout for all wall applications. All bedding and grouting mortar shall be weather-resistant, frost-resistant, shockproof, and chemical corrosion-resistant, and shall meet the following physical requirements:

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

1. Observe good stone working and safety practices at all times and comply with applicable building codes and regulations.
2. Linnstone quartz surfaces are suitable for concrete, block, and masonry-type surfaces, gypsum wallboard, plasters, cement backer board, plywood, asphalt, and steel, properly prepared and with the appropriate adhesives and grout.
3. The finished mortar and grout should be resistant to urine, diluted acid, dilute alkali, sugar, brine, and food waste products.
4. Linnstone quartz surfaces and their setting and grouting mortar do not constitute a waterproofing barrier and should not be considered as an alternative waterproofing membrane. For information on thin, load-bearing waterproof membranes, please consult your preferred supplier.
5. Linnstone quartz surfaces to be bonded must be free from dust, oil, grease, paint, tar, wax, curing agents, primers, sealers, form release agents, or any other harmful substances that can act as bonding barriers.
6. It is the installer's responsibility to ensure that any such contaminants are removed before the linnstone quartz surfaces installation.
7. All mortar additives, epoxy adhesives, and grouts should be from one manufacturer to ensure compatibility.
8. All linnstone quartz surfaces should be treated without fragmentation, breakage, or intrusion of foreign matter.
9. Handle, store, mix and apply all set and grouting materials in strict accordance with the manufacturer's instructions.

### **Finishing Touches**

It is important to let your customers know that any successive trades must not use the new countertop as a workbench, a stepping, or a standing platform and that any trades using solvents or adhesives should take due care to avoid and/or remove any spills created by their solvents or adhesives. In addition, if further construction work is to be carried out at the work site after the surface installation is complete, ensure that the entire top of the linnstone quartz surfaces are covered with corrugated cardboard or other protective material to properly protect the linnstone quartz surfaces. Linnstone recommends at the period of finishing touches, your customer should confirm in writing, their satisfaction with the material and workmanship to cover you against damages caused by others.

### **Returning Slabs**

Any slab that does not fit should be returned for credit or exchange before altered in any way. No restocking fee is applied if returned within seven days. After seven days a restocking fee may apply.

**OSHA Policy**

The Distributor has an OSHA Policy in place to ensure the safety of all persons on our premises. All visitors must follow the instructions of our staff and obey any warning signs posted in the warehouse.

**Requirements for Drivers**

1. Drivers should make sure the slabs are properly loaded.
2. Contract drivers should be made aware of which orders are to be collected. This is especially important when several orders are waiting for pickup or delivery. The distributor will not be responsible for additional costs for missed goods on the first delivery.
3. Drivers are not allowed to roam around the warehouse unless accompanied by an authorized person.

## Care and Maintenance

Linnstone quartz surfaces are premium quality solid non-porous products that are highly resistant to stains caused by fruit/vegetable juices, liquid food coloring, coffee, tea, wine, soft drinks, olive oil. Normal cleaning with a damp cloth or paper towel, and if possible, a small amount of mild detergent is all you need to keep your linnstone quartz surfaces looking great. Once clean, rinse and dry the surface thoroughly. To avoid a dull surface, be sure to use a non-abrasive cleaner and rinse thoroughly after use. Linnstone quartz surfaces require minimum maintenance and following the care and maintenance guidelines will help to keep the surface in good condition for years.

### REGULAR CLEANING

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

If needed, apply common, non-abrasive, household cleaners directly to the affected area for a few minutes. Soak the affected area with pads of paper towels for 5 to 10 minutes. Scrub the area gently with a non-scratch pad in a circular movement. Rinse off any cleaner with clean water thoroughly. Then dry with a soft cloth or paper towel thoroughly. If necessary, apply Windex streak-free as the final step to clean any gel residue.

#### 2. Removing Adhered Materials

Adhered materials refer to materials like gum, nail polish, paint, or any other foreign matter. First, carefully scrape away the excess material with a plastic putty knife or a razor. And then clean the surface with a damp cloth to remove any marks left behind and any residual dirt. Also do not use abrasive pads to clean tougher dirt as abrasives can damage the finish/sheen of your countertops. Any gray marks left by the blade can be removed with household cleaners and ordinary scouring pads. If necessary, use Windex streak-free to rinse and clean any gel residue.

#### 3. Textured Finishes Cleaning and Maintenance

Texture Finishes refer to finishes other than polishing finishes, such as honed finishes, leathered finishes. These finishes require more cleaning than our polished finish. Fingerprints, grease, wet spots, metalmarks, and other signs of daily living show more on these types of surfaces. Most of these marks can be easily removed with little effort and non-abrasive cleaning products such as Soft Scrub Liquid Gel. These types of finishes are not recommended for high-traffic areas.

### CAUTION

#### 1. Avoid Chemicals & Solvents (Cleaners)

Quartz can be permanently damaged by prolonged exposure to strong chemicals and solvents. It is advisable to avoid exposing linnstone quartz surfaces to chemicals with PH levels outside of the

range 5-8, such as grill cleaners, floor strippers, paint removers/furniture strippers, toilet bowl cleaners, the product with pumice, oil soaps, tarnish, or silver removers, furniture cleaners, drain products, battery acid, dishwasher detergent, etc. If your linnstone quartz surfaces are accidentally exposed to any potentially damaging products, rinse immediately with water to neutralize the effect. Do not use abrasive or strong alkaline/acid or free radicals or oxidizers or the like (whether high, neutral, or low PH) cleaners. Various chemicals are corrosive and/or erosive in their ability to attack any structure including linnstone quartz surfaces. Be very aware of these potential damages to your product.

## **2. Avoid Scratch & Hitting**

Linnstone quartz surfaces are durable and more resistant to surface damage than other stones. However, all stones can be damaged by force and no stone is chip-proof. Objects hitting edges particularly at sinks or dishwashers may cause chips. Though a minor knife slip will dull the knife and not harm linnstone quartz surfaces, no stone surface is scratch-proof. Surface markings are more visible on mono stone designs than multi-colored surfaces. The use of a cutting board is always recommended when using sharp knives. Care should be exercised when moving heavy objects, and avoid dropping heavy kitchen tools, particularly on the edges of sinks or dishwashers.

## **3. Heat Caution**

Linnstone quartz surfaces are designed and manufactured to withstand moderate heat but the products are not heatproof. Like any other composite material, linnstone quartz surfaces may be damaged by sudden or lasting exposure to high temperature resulting in cracks, especially at the edges and cutouts of the product. To prevent thermal shock, discoloration, or other damages, it is necessary to use insulating pads when putting hot objects on the surface. Keep linnstone quartz surfaces away from open flames and avoid prolonged contact with very hot pots. We always recommend using a hot pad or trivet, especially when using cooking units such as electric frying pans, griddles, crock pots, or toaster ovens. Do not put hot cookware directly on the surface of linnstone quartz surfaces.

## **4. Avoid Sun Exposure**

Minimize direct sun exposure to linnstone quartz surfaces. Long-term exposure to direct sunlight may discolor the surface finish. Linnstone quartz surfaces are only for interior applications.

## **ATTENTION**

### **1. Color Consistency & Uniformity**

Linnstone quartz surfaces are pure natural quartz. Variation in the natural stone (quartz) color, pattern, size, shape, and shade are inherent and unique characteristics to be expected with this product. This

does not affect the product's performance in any manner.

Color blotches are intended and designed into many products to enhance natural beauty. Samples are small select cuts from a slab; they do not exhibit all the characteristics of a design and therefore are not fully representative of what will be installed. The product will not be replaced due to these variations.

## **2. Support**

Linnstone quartz surfaces are not structural support products. The linnstone quartz surfaces of 2 or 3cm thickness are for countertop only and must be supported. The linnstone quartz surfaces of less than 2cm thickness are for surface finishes such as walls, tub and shower surround, and fireplaces. Horizontal applications such as a tub deck must be completely supported.

## **3. Installation**

Linnstone quartz surfaces installation is optimized when walls and cabinets are properly prepared for installation. This includes but is not limited to structurally sound, straight, level, and square walls and cabinets, lack of which may cause poor installation and poor seam fit, or inconsistent countertop overhang and placement.

Linnstone quartz surfaces installation does not include qualification of any sink or stove cutouts (any cutouts), faucet hole locations, or cabinet sizes. Linnstone is not responsible for verifying whether sinks, stove, or other cutout appliances, cabinets, and faucet hole locations fit together well, or at all. This is the responsibility of the owner, general contractor, or the like. Linnstone will fabricate cutouts as per supplied model/template information. Linnstone is not responsible for the accuracy of the information provided.

**Proper care and maintenance of goods are the responsibility of the owner and/or other users. The Care and Maintenance Guidelines published at [www.linnstone.com](http://www.linnstone.com) are for reference.**

**Linnstone might update the guidelines at its sole discretion at any time. Following the up-to-date guidelines is highly recommended, which is helpful to keep your linnstone quartz surfaces in good condition for years.**

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**Special Care Considerations Form**



**Special Care Considerations for Textured Finishes**

Linnstone provides various colors with different quartz textured finishes. Texture Finishes refer to finishes other than polishing finishes, such as honed finishes, leathered finishes. Please note that these finishes require more cleaning than our polished finish. Finger prints, grease, wet spots, metal marks and other signs of daily living show more on these types of surfaces. Most of these marks can be easily removed with little effort and non-abrasive cleaning products such as Soft Scrub Liquid Gel. These types of finishes are not recommended for high traffic areas.

By signing this document, you agree that characteristics of these unique finishes have been fully explained to you. You also understand that while linnstone quartz surfaces have Residential Lifetime Warranty, this warranty covers failures caused by product defects when the material is installed by linnstone quartz surfaces certified fabricator. Temporary marks that are common on these finishes are not covered by our linnstone quartz surfaces warranty.

For additional warranty information, please refer to Residential Lifetime Warranty and Care and Maintenance part of linnstone website at [www.linnstone.com](http://www.linnstone.com).

<b>NAME OF PURCHASER</b>		<b>NAME OF DEALER/FABRICATOR</b>	
<b>SIGNATURE OF PURCHASER</b>		<b>SIGNATURE OF PURCHASER</b>	
<b>DATE</b>		<b>DATE</b>	

**Note: Copies of our Residential Lifetime Warranty are available at the authorized fabricator. Residential Lifetime Warranty has some restrictions apply. Visit [www.linnstone.com](http://www.linnstone.com) for more information.**

## Residential Lifetime Warranty & Commercial Limited Warranty

### Residential Lifetime Warranty

Linnstone warrants to repair or replace its material that fails due to any manufacturing defect when fabricated and installed by a Certified Fabricator from the original date of installation. This warranty applies exclusively to the repair or replacement of failed material that has been permanently installed in your residence. The option to repair or replace the material is at the sole discretion of linnstone. The cost of installation and/or fabrication is NOT covered under this warranty.

This Residential Lifetime Warranty is available only to the ORIGINAL OWNER of a single-family residence in which linnstone quartz surfaces have been originally installed. In the case of a newly constructed single-family residence, this warranty is available to the “first” owner purchasing the residence with linnstone quartz surfaces permanently installed.

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

### 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 applies only to linnstone quartz surfaces that have been permanently installed in the interior of single-family residences and have not been moved or altered from their original installation. If after or during installation you decide that you do not like the color or finish you selected, that subjective decision is not covered under this warranty.
3. This warranty does not cover materials and/or services that have not been paid in full.
4. This warranty applies only to materials that have been maintained according to the Linnstone Quartz Surfaces Care & Maintenance guidelines. The Care & Maintenance guidelines are available at [www.linnstone.com](http://www.linnstone.com).
5. To request service under this warranty, you must contact the company who sold you linnstone quartz surfaces or contact linnstone directly within thirty (30) days once the failure of linnstone quartz surfaces occurs.

6. Following installation, you must register your product within thirty (30) days to activate your warranty at [www.linnstone.com](http://www.linnstone.com). If no record of your warranty is on file, you must provide proof of purchase in the form of a copy of your original receipt or invoice showing the name of the owner, authorized dealer, and linnstone certified fabricator. Upon receipt of your original receipt or invoice above, linnstone will fully honor this warranty even though no register is on file. You must agree to cooperate with linnstone or its authorized agents in the inspection of the product and assist us in efforts to perform our obligations under this warranty.

7. If linnstone quartz surfaces fail due to a manufacturing defect, linnstone will, at its sole discretion, repair or replace such materials. Linnstone will seek to obtain the best possible result, whether we decide to repair or replace your product. However, an exact color match is never guaranteed.

8. All decisions regarding this warranty are at the sole discretion of linnstone and shall be final and binding on all parties. No representative, dealer, salesperson, distributor, fabricator, or any other person is authorized to make any warranty or promises on behalf of linnstone.

9. This warranty expires upon transferring the ownership of the property to subsequent parties. This warranty is not transferable and does not cover claims made by subsequent owners of your home.

### **Exclusions**

1. This warranty does not cover use for any commercial purposes. Commercial use includes but is not limited to, use in a store, rental properties, office, or any other place of business.

2. This warranty does not cover products installed in any outdoor places.

3. This warranty does not cover products used as flooring material.

4. This warranty does not cover improper use or abuse. Improper use or abuse includes, but is not limited to, damage from mishandling of the product, damage from excessive heat or uneven exposure to weather conditions, physical or chemical abuse, and damage from improper care and maintenance. Do not use cleanings products including oven cleaner, paint remover, or any other similar products, as they may undermine the surface.

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

6. This warranty does not cover scratches. Linnstone quartz surfaces are a very hard material and

highly scratch resistant but not scratch-proof. Proper care must be exercised including the use of a cutting board as part of your care and maintenance.

7. This warranty does not cover routine maintenance. Routine maintenance includes but is not limited to, 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](http://www.linnstone.com).

8. This warranty does not cover failures due to fabricators/installers not following the prescribed fabrication and installation procedures as outlined by linnstone. Improper fabrication and/or installation is the sole responsibility of the fabricator and/or installer.

9. This warranty does not cover any defects that were visible at the time of fabrication and were not avoided during fabrication. Fabricators are required to perform a visual inspection of all materials before fabrication and again before installation.

10. This warranty does not cover seam appearance or seam performance, adhesives, caulk, or other accessory items. Once the product is installed, the main reasons for seam separation or cracking are the shifting or movement of the substrate, cabinets or foundation, and thermal shock. Thermal shock can occur when a hot pan, dish, or other receptacle or object is left on the countertop for even a brief period. Trivets or hot pads should always be used. These issues are not considered material defects and are subject to proper care and maintenance by the owner.

11. This warranty does not cover any chemical damage.

12. This warranty does not cover any abnormal use of the material including bending or curving.

13. This warranty does not cover material that has been milled or reduced in thickness.

14. This warranty does not cover the installation of sinks, other plumbing fixtures, or appliances.

15. This warranty does not cover securing mechanical fasteners directly into the material.

16. This warranty does not cover any failures due to inadequate support for the installation. This includes overhangs over recommended support guidelines provided by linnstone or an unsupported base.

17. This warranty does not cover any chips or cracks that are a result of “dry” cutting or polishing and/or not following the minimum requirements for edge details.

18. This warranty does not cover mitered edges where the joint is not cut correctly.
19. This warranty does not cover the alteration of any linnstone factory-applied finish. Only colors listed as available in our brochure, sample book, or on our website as “honed” are eligible under this warranty. Any issues arising from the practice of “in-shop” honing are the sole responsibility of the fabricator.
20. This warranty does not cover temporary marks that are common to honed finishes such as metal marks, fingerprints, or other signs of daily living. A signed “Special Care Considerations for Linnstone Textured Finishes” form is required to be submitted to linnstone or its authorized representatives to receive coverage under this warranty. This form must be signed by the end-user /owner of the finished installation.
21. This warranty does not cover additional modifications or supplemental repairs such as structural changes, plumbing, electrical installation, tile, cabinets, flooring, etc. that may be necessary to repair or replace the linnstone quartz surfaces covered under this warranty. The supply of these materials and labor costs shall be the responsibility of the customer.
22. This warranty does not cover natural variations in the color, size, shape, and distribution of the pattern of the natural quartz or the natural variations in background tone. These characteristics are inherent and unique characteristics of the product. Color samples provided to consumers, dealers, and fabricators are for reference only and not an exact replication of what will be installed in your home. We advise customers to check the actual slabs to make sure the right colors are received.
23. This warranty does not cover what is referred to as spots or blemishes smaller than 10 mm. A certain level of spots or blemishes are inherent in the manufacturing process and do not affect the structural integrity of the material.
24. Linnstone quartz surfaces might contain important product information on the back of each slab. Removing this product information will void the warranty.
25. Linnstone is not responsible for damage or injury caused in whole or in part by force majeure, job site conditions, and architectural/engineering design or changes, structural movement/degradation, acts of vandalism, or accidents.
26. Linnstone shall not be responsible in either contract or tort for any loss of direct, indirect, consequential, incidental, special, exemplary, or punitive damages arising out of the use or the inability

to use the products covered by this warranty. Some states do not allow exclusion or limitation of incidental damages, so the above limitations or exclusions may not apply to you.

27. This warranty applies only to the purchases of the slab and does not apply to pre-fabricated countertops. Inspect thoroughly the pre-fabricated countertops before fabrication is the sole responsibility of the purchaser. After pre-fabricated countertops have been installed, linnstone will not acknowledge any claim.

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

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

LINNSTONE EXPRESSLY DISCLAIMS ALL WARRANTIES NOT STATED HEREIN, INCLUDING, TO THE EXTENT PERMITTED BY APPLICABLE LAW, 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 LOCATIONS OR OTHER JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM DIFFERENT LOCATION.

THIS WARRANTY CONSTITUTES A PART OF THE SALES CONTRACTS YOU SIGNED.

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## Commercial Limited Warranty

Linnstone warrants that its installed products will be free from manufacturing defects in an interior, commercial use situation for ten (10) years from the date of installation. If a manufacturing defect occurs during the warranty period, this warranty applies exclusively to the repair or replacement of the defective linnstone quartz surfaces.

This warranty applies to the repair or replacement of defective material in slab form. Linnstone is not responsible for any other labor costs that could be associated with the repair or replacement of material, including but not limited to the removal, disposal, fabrication, installation, repair, or replacement of collateral items.

No warranty whatsoever is made in regards to materials produced or provided by other manufacturers.

All decisions regarding the existence of manufacturing defects or affecting this warranty shall be made by linnstone and shall be final and binding on all parties. No representative, dealer, salesperson, distributor, fabricator, or any other person is authorized to make any warranty or promises on behalf of linnstone.

In the event of a defect covered under this warranty, linnstone shall have the sole discretion whether to repair or replace the defective material. The cost of installation and/or fabrication is NOT covered under this warranty. Without derogating from the aforementioned, replacement of defective linnstone slab will be subject to inventory constraints. Besides, the replaced slab may not be the same as the defective slab.

Commercial Property is defined as any location open to the general public for business use, private properties subject to residential or commercial rental or lease, or properties designated as hotels, motels, or other temporary residence applications.

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

## Terms and Conditions

1. This warranty applies only to linnstone quartz surfaces. This warranty does not apply to any other products, including other quartz surfacing products manufactured or supplied by any other party.

2. This warranty applies only to linnstone quartz surfaces that have been permanently installed in the interior of a commercial structure and have not been moved or altered from the original installation.
3. This warranty is issued to the ORIGINAL OWNER of the commercial property who purchased and installed linnstone quartz surfaces. This warranty expires upon transferring the ownership of the property to subsequent parties. This warranty is not transferable and does not cover claims made by subsequent owners of the commercial properties.
4. This warranty only covers materials that have been paid in full.
5. This warranty does not apply to unoccupied structures.
6. Linnstone quartz surfaces must be maintained according to Linnstone Quartz Surfaces Care & Maintenance Guidelines. The Care & Maintenance guidelines are available at [www.linnstone.com](http://www.linnstone.com).
7. This warranty only applies to polished finishes. It does not apply to surfaces with honed and textured finishes.
8. Color samples provided to owner customers, fabricators, and installers may not match the actual stone. Linnstone quartz surfaces are made of natural quartz. Variation in color, shade, pattern movement and grain size are quite normal on this natural product. Samples are small pieces cut from a slab; they do not display all the characteristics of the actual slab. These characteristics are inherent in the quartz stone. Color samples provided are for reference only and not an exact replication of what will be installed on your property. We advise customers to check the actual slabs to make sure the right colors are received.
9. If linnstone quartz surfaces fail due to a manufacturing defect, linnstone will, at its sole discretion, repair or replace such materials. Linnstone cannot guarantee an exact color match to an existing product. Linnstone is not liable for any loss of direct or indirect, consequential, incidental, punitive, or any other similar damages arising out of the use or inability to use the product covered by this warranty, including but not limited to loss of use, loss of profits, business interruption, and/or any other losses.
10. Laws and building safety regulations governing the design, engineering, and construction of installations vary widely. Linnstone has no responsibility concerning the selection, design, engineering, or construction of the installation.

11. To obtain service under this commercial warranty, the customer must provide proof of purchase in the form of the sales contract showing the name of the owner of the commercial property. This warranty is not applicable without proof of original contract.

12. Following installation, you must register your product within thirty (30) days to activate your warranty. Complete the online warranty registration form at [www.linnstone.com](http://www.linnstone.com). You must agree to cooperate with linnstone or its authorized agents in the inspection of the product and assist us in efforts to perform our obligations under this warranty.

### **Exclusions**

1. This warranty does not cover linnstone quartz surfaces installed in any outdoor places.
2. This warranty does not cover linnstone quartz surfaces used as flooring material.
3. This warranty does not cover seam appearance or seam performance, adhesives, caulks, or any other accessory items. Once the product is installed the main reasons for seam separation or cracking are the shifting or movement of the substrate, cabinets, foundation, or thermal shock. Thermal shock can occur when a hot pan, dish, or other receptacle or object is left on the countertop for even a brief period. Trivets or hot pads should always be used. These issues are not considered material defects and are subject to proper care and maintenance by the owner.
4. This warranty does not cover any fabrication work that was not completed by a linnstone certified fabricator.
5. This warranty does not cover abnormal use or conditions or abuse in any way. Abnormal use or conditions includes, but is not limited to, 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 practices. Never use paint removers, strong alkaline, acid or oxidizing substances, and products with pumice.
6. This warranty does not cover additional modifications or supplemental repairs such as structural changes, plumbing, electrical installation, cabinets, tiles, etc. that may be necessary to complete the repair or replacement of linnstone quartz surfaces covered under this warranty. The supply of these material and labor costs shall be the responsibility of the owner of the commercial property.
7. This warranty does not cover chips, scratches, thermal shock, impact damage, or chemical damages.

Linnstone quartz surfaces are highly resistant to scratches, but they are not scratching-proof. No cutting shall be done directly on the surface and a cutting board shall always be used. Proper care and maintenance shall be followed at all times – refer to the Linnstone Quartz Surface Care & Maintenance Guidelines at [www.linnstone.com](http://www.linnstone.com).

8. This warranty does not cover mitered edges where the joint is not cut correctly.

9. This warranty does not cover the alteration of any linnstone factory-applied finish. Any issues arising from the practice of “additional and/or in shop honing” are the sole responsibility of the fabricator who performed the process and/or the owner who purchased the original linnstone quartz surfaces.

10. This warranty does not cover any abnormal adjustment made to the material including bending, curving, thickness reduction, surface finish variation, or any other alteration to the original linnstone quartz surfaces.

11. This warranty does not cover any failures due to inadequate support for the installation. This includes overhangs over recommended support guidelines provided by linnstone or an unsupported base. Improper fabrication and/or installation is the sole responsibility of the fabricator/installer.

12. This warranty does not cover the installation of sinks, other plumbing fixtures, or appliances.

13. This warranty does not cover a product that has been moved from its original installation location.

14. Linnstone is not responsible for damages or injury caused by force majeure, job site conditions, architectural/engineering design or changes, structural movement/degradation, acts of vandalism, or accidents.

15. Linnstone quartz surfaces might contain important information on the back of each slab. Removing this product information will void the warranty.

16. This warranty does not cover what is referred to as spots or “beauty marks” smaller than 16mm (5/8 inches). A certain level of spots or “beauty marks” are inherent in the manufacturing process and do not affect the structural integrity of the material.

17. To obtain service under this limited warranty, a linnstone authorized agent must be permitted to inspect the linnstone quartz surfaces being claimed. Linnstone requires full cooperation with its agent in the efforts to service this limited warranty. Linnstone’s findings shall be final and binding to all parties.

18. Linnstone makes no other warranty, representation, or guarantee, express or implied, concerning its products, except as expressly stated herein. This is the only warranty offered by linnstone for its quartz surfacing materials.

19. Other than linnstone itself, no one is authorized to make any warranty or promise on behalf of linnstone concerning its materials.

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

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

LINNSTONE EXPRESSLY DISCLAIMS ALL WARRANTIES NOT STATED HEREIN, INCLUDING, TO THE EXTENT PERMITTED BY APPLICABLE LAW, 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 LOCATIONS OR OTHER JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM DIFFERENT LOCATION.

THIS WARRANTY CONSTITUTES A PART OF THE SALES CONTRACTS YOU SIGNED.

NOTE: THE "LINNSTONE" AND "LINNSTONE" LOGOS ARE REGISTERED TRADEMARKS OF TRIPLE L INTERNATIONAL LLC 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:** Countertops, Floorings, etc

#### Details of the supplier of the safety data sheet

**Manufacturer/Supplier:** linnstone

**Full address:** 955 SIVERT DRIVE

**Phone number:** +1-630-755-5466

**Email:** info@linnstone.com

**Other U.S. contact point:** Not available

**Further information obtainable from:** linnstone

#### Emergency telephone number:

Poison Center

Tel: +1 800 222 1222

### 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.

<b>Composition:</b>		
14808-60-7	Quartz	<93%
14464-46-1	Cristobalite Carc. 1A, H350	<50%
68476-25-5	Feldspar Carc. 1A, H350	<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%	<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:

<b>14808-60-7 Quartz (&lt;93%)</b>		
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
<b>14464-46-1 Cristobalite (&lt;50%)</b>		
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
<b>100-42-5 Polyester Resin(7-15%)</b>		
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

<b>60676-86-0 Glass &amp; Mirrors(&lt;50%)</b>	
PEL (USA)	20mppcf or 80mg/m3 /%SiO2
TLV (USA)	TLV withdrawn
<b>13463-67-7 Titanium Dioxide (&lt;5%)</b>	
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:**

<b>100-42-5 Polyester Resin</b>	
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

<b>General Information</b> <b>Appearance:</b> <b>Form:</b> <b>Color:</b> <b>Odor:</b> <b>Odor threshold:</b>	Solid According to product specification Odourless Not available
<b>pH-value:</b>	Not available
<b>Change in condition</b> <b>Melting point/Freezing point:</b> <b>Initial boiling point and boiling range:</b>	Not available Not available
<b>Flash point:</b>	Not available
<b>Flammability (solid, gaseous):</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Explosion limits:</b> <b>Lower:</b> <b>Upper:</b>	Not available Not available
<b>Vapor pressure:</b>	Not available
<b>Density:</b> <b>Relative density:</b> <b>Vapor density:</b> <b>Evaporation rate:</b>	Not available Not available Not available Not available
<b>Solubility in / Miscibility with Water:</b>	Not available
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>Viscosity:</b> <b>Dynamic:</b> <b>Kinematic:</b>	Not available Not available
<b>Other information</b>	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:		
<b>100-42-5 Polyster Resin</b>		
Oral	LD50	5,000 mg/kg (rat)
<b>13463-67-7 Titanium Dioxide</b>		
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
<b>NTP (National Toxicology Program)</b>		
14808-60-7	Quartz	K
14464-46-1	Cristobalite	K
100-42-5	Polyster Resin	R
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
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 Polyster Resin
TSCA (Toxic Substances Control Act):	All components have the value ACTIVE.

Proposition 65

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

**Cancerogenity categories**

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

**DISCLAIMER OF LIABILITY**

The information contained herein was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. 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 this page and return it to:**

TRIPLE L INTERNATIONAL LLC  
955 Sivert Drive, Wood Dale, IL 60191 USA

**Receipt Form**

The undersigned acknowledges receipt of the Linnstone Quartz Surfaces Product Manual.

Fabricator's Business Details:

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

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

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

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

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

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

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

Please read through the Linnstone Quartz Surfaces Product Manual carefully. You should carefully comply with all applicable local laws and regulations. We also commend that you consult with your local occupational health professional and other advisors on the applicable laws, regulations and recommended protection measures.





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