

RESIDENTIAL
& COMMERCIAL

INDUSTRIAL
& MARINE

ART
& CRAFT

SHIMICOAT
SURFACE SOLUTIONS



QUARTZ

Coloured Granules

Pack Sizes

25Kg Multi-Wall kraft paper bags.

Pack Size (Kg)

25Kg Bags

Description

SHIMI Quartz also known as Colored Granules Quartz or aggregate, are composed of the finest uniformly shaped and graded quartz granules on Earth. Shimi Quartz is an exciting and versatile coating system specifically engineered to offer the ideal solution to commercial, residential and industrial floors.

This unique product is brilliantly color-coated with an advanced resin system and high quality colorfast pigments to provide optimal durability and extreme performance for the most demanding environments. Easy to install and easy to maintain. In addition to their superior resilience to harsh chemicals and UV rays, SHIMI Quartz provide optimal slip resistant qualities. A slip resistant floor in many colours that is functional and easy to maintain.

SHIMI Quartz make resinous flooring as safe as it is ergonomic and decorative. SHIMI Quartz decorative flooring aggregate are composed of the finest uniformly shaped and sized quartz granules on Earth. Compared to traditional slip-resistant coatings system of silica sand, SHIMI Quartz has an incredible level of durability, hardness, longevity, wide range of blended colours, visual and superior functionality. SHIMI Quartz provides a diverse range of benefits and a vast number of desirable characteristics, which are reflected in the number of places Quartz Shield can be utilised. SHIMI Quartz is specifically engineered for use in commercial/industrial environments as well as certain areas of residential floors, where slip-resistance, hygiene and ease of maintenance is paramount.

Features

- Superior colorfastness / UV stability
- Excellent abrasion and chemical resistance
- Optimal grain shape and size uniformity
- Perfect for heavy-duty environments
- Outstanding slip-resistance qualities
- Customizable to compliment any décor
- Lab-tested resin system compatibility
- Economical & Functional

Colour Chart

SHIMICOAT offers Quartz in 6 vibrant colours:

1. Crystal (Light Grey)
2. Eclipse (Medium Grey)
3. Twilight (Deep Grey)
4. Clearwater (Sky Blue)
5. Mossy Oak (Light Oak)
6. Firehouse (Naked Fire)



MATERIALS



CHEMICALS



RESINS



EQUIPMENT

Ph: (08) 9364 7446 | info@shimi.com.au | ABN: 28 622 871 283 | www.shimi.com.au

Coverage

SHIMI Quartz shall only be applied Full Broadcast.

Double broadcast may be required to achieve your desired finish surface.

Coverage Rates:

25Kg Bag / 10-20sqm

Coverage rates vary depending on customer preferences and application techniques.

For more information, please consult SHIMICOAT Technical Team.

Applications

Full broadcast over the wet epoxy coated surface, once cured apply clear topcoat to sandwich lock the quartz in-between to coating layers.

For best results, we recommend two Ultra Clear Topcoats to perfectly embed SHIMI Quartz and provide a durable wearing finishing surface. Any of the following Ultra Clear Topcoat can be used:

- UVthane
- UVthane PLUS
- Ultra Clear Epoxy
- AQUAthane
- AQUAseal
- High Gloss Acrylic Sealer

SHIMI Quartz are compatible with all SHIMICOAT resins.

Recommended Application Environments

- Animal Facilities
- Apartment Buildings
- Auto Dealerships
- Balconies
- Bars, Pubs & Taverns
- Banquet Halls
- Break Rooms
- Cafeterias
- Churches
- Clean Rooms
- Commercial Kitchens
- Control Rooms
- Corridors
- Countertops
- Detention Centers
- Dog Kennels
- Firehouses
- Food Processing Plants
- Garages
- Greenhouses
- Hallways
- Hospitals
- Hotels
- Industrial Facilities
- Laboratories
- Locker Rooms
- Municipalities
- Museums
- Nursing Homes
- Offices
- Patios
- Pharmaceutical Plants
- Pool Decks
- Production Floors
- Ramps
- Recreation Rooms
- Restaurants
- Restrooms
- Retail Stores
- Retirement Homes
- Salons
- Schools
- Shower Stalls
- Showrooms
- Stadiums
- Sunrooms
- Veterinary Clinics
- Walkways
- Workshops
- Zoos
- And more...

SHIMI Quartz is ideally suited for residential applications where a slip-resistant coating combined with decorative and aesthetic finish is desirable. SHIMI Quartz is widely used in outdoor entertaining areas and pool surroundings.

This wide range of applications and benefits are perfectly complemented by a dynamic colour range of different shades of grey, aqua blue and exotic blends, including

- | | | |
|------------|----------------|---------------|
| 7. Crystal | 9. Twilight | 11. Mossy Oak |
| 8. Eclipse | 10. Clearwater | 12. Firehouse |

These vibrant colours further increase the appeal of our new and exciting flooring system, ensuring SHIMI Quartz as a superior choice for businesses and homeowners, offering ideal coating options across both commercial and residential sectors.

Redefining toughness with an enhanced focus on combining durability with design and functionality. From the harshest chemical exposure to the most abrasive high-traffic areas, SHIMI Quartz provides the versatility to custom design a durable high performance resinous flooring system that will withstand the most severe environments. The sheer hardness of the quartz mineral will enhance both impact and slip resistance, making it the optimal solution for the most extreme surfaces.

Clean Up

Use blower, broom and dustpan or vacuum cleaner to remove excess Quartz.

Preparations

Clean and dry surface. Ensure surface to be coated is free of all dirt, grease, oil, paint, curing agents and other contaminants. Removal of Oil Contamination by degreaser and alkaline cleaning pressure wash
Acid-wash to enhanced surface porosity and etch the surface.

Ensure moisture free surface. Allow to completely dry, run Dry Test. Place a piece of plastic over a small area, tape the edges and leave for 1 hour. Remove plastic, if there is no moisture on either surface, concrete is sufficiently dry.

Ideally, always consider surface grinding and removal of loose materials. Grinding is always advisable prior to application of all Shimicoat Epoxy products, to maximize adhesion.

For further information, please refer to SHIMICOAT Instruction for "Surface Preparations".

Specifications

SHIMICOAT Quartz Physical and Chemical Properties:

Attribute	Properties
Weight	25Kg Net
Materials	Quartz
Grain Sizes	40 Mesh (400 Micron or 0.4mm)
Grain Shapes	Spherical
Colour	Available in 6 blended Colours
Typical Applications	Epoxy Quartz Floor Finishing System - Broadcast
Packing Density	2.06 Kg/Lt
Other Properties	Chemical Resistant - Water Resistance -Heat Resistance - UV Resistant -Non-toxic
Solubility	Insoluble in Water, Oil, Resin and many other liquid media
Australian Weatherability	1000 Hours - ASTM G 155 / Xenon Arc Light
Colorfastness / UV stability	1000 Hours - ASTM G155 / Xenon Arc Light
Evaporable Moisture Content	<0.05% - ASTM C29

Non-Reactive to below chemicals:

- Aluminum Sulfate (25%)
- Ammonium Hydroxide (28%)
- Chlorine Bleach (15%)
- Hydrochloric Acid (100%)
- Industrial Detergent (50%)
- Mineral Spirits (100%)
- Sodium Carbonate (40%)
- Caustic Soda - Sodium Hydroxide (25%)
- Tricloro-s-triazene (10%)
- Trisodium Phosphate (40%)
- Seawater / Freshwater (100%)
- Xylene (100%)

Direction

Epoxy Quartz Floor Finishing System

SHIMI Quartz

An Installation Guide

Following is a step by step guide to install Epoxy Quartz Floor Finishing System using Shimicoat Products and Materials over concrete surface floor.

Products and Materials

1. Epoxy Repair Kit
2. Basecoat Epoxy "Premium Tinted Epoxy in your choice of colour"
3. Quartz in your choice of colour and design. SHIMI Quartz shall only be applied Full Broadcast. Double broadcast may be required to achieve your desired finish surface.
Coverage Rates: 25Kg Bag / 5-10sqm
Coverage rates vary depending on customer preferences and application techniques. For more information, please consult SHIMICOAT Technical Team.
4. Ultra Clear Topcoat. Many options to choose from:
For best results, we recommend two Ultra Clear Topcoats to perfectly embed SHIMI Quartz and provide a durable wearing finishing surface. Any of the following Ultra Clear Topcoat can be used:
 - UVthane
 - UVthane PLUS
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5. EpoDil – Epoxy Diluent / Thinner

Tools:

1. Electric mixer or stick for mixing resin
2. Brush and Rollers
3. Roller Frames
4. Extendable Handle / Pole
5. Buckets
6. Broom, vacuum or blower to clean up the surface
7. Spike shoes

Installation:

Surface Preparations:

1. Prepare the floor by concrete grinding and removal of surface materials.
2. Use Epoxy Repair kit as required to fill any cracks, holes or damages on the surface.
3. Ensure the surface is perfectly clean and free of oil and grease. If grinder is unavailable, acid wash and make sure you wash, rinse and flush with detergent to neutralize the surface and remove all acid residue.
4. Vacuum and/or blow out to remove dust from the surface.
5. Using masking tape, tape all around the walls and cover all surfaces that you wish NOT to be epoxy coated.

NOTE: For further information on surface preparation, please refer to our brochure, website or contact Shimicoat technical representative.

Basecoat Application and Quartz Broadcast:

1. Mix basecoat epoxy in small portion that you can manage to apply. Premium Tinted Epoxy has a maximum of 40min Pot Life, plan to complete your application within 30minutes allowing a few minutes for unexpected situations.
2. Ideally, we recommend mix 3Lt of Part A and 1Lt of Part B (4Lt blend) for one or two people working on a small double garage floor.
3. Apply the basecoat epoxy to corners, edges first then the main floor.
4. Increase your batch mix as you can manage to apply within 30 min.
5. While still wet, broadcast Quartz evenly over the entire surface. Full Broadcast shall ONLY be applied.
6. Remember wet-edge allowance, always leave a wet skirting (20-30cm) to be Quartz broadcasted with the next raw of coating. Avoid coating over already broadcasted Quartz.
7. Let it cure. 2-3 hours for Fast Floor, 8-12 hours for normal curing epoxy.

NOTE: Add Epoxy Diluent or Xylene up to 10% to thin the product, only if required for example in cold days.



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Topcoat Application:

1. Test to ensure fully cured by twisting your thumb on Quartz. It should feel solid and dry with strong bonding of Quartz to epoxy surface.
2. Test for dryness by twist and turning your thumb over the surface and ensure Quartz are attached and boned.
3. Use a coarse broom, garden blower or vacuum to recover excess and unbound Quartz from the surface.
4. Mix your Clear Topcoat Resin in accordance to label instruction and pour onto the surface.

NOTE: Now you are on the clock, DO NOT waste time, initiate application. You must be prepared for application. One person applies the corners and edges using baby-roller or a brush and another person apply to the main floor. If you are slow, pour the resin on the floor, to slow down the curing process. Apply and roll evenly.

5. The pot life of most Ultra Clear Topcoat Resins are 30min, plan your work to be completed well within 30min.
6. Ideally, mix 2-4Lt at a time.
7. When, you are happy with the topcoat, put on Spike Shoes and take the masking tapes off the walls as it will be too hard to take off when cured.
8. Clear the floor, wipe and clean all your tools.
9. Let it cure over-night (6-8 hours). The floor is cured after 16 hours, trafficable and you can use the floor, however, NO driving or stretching furniture over the floor for one week. Treat it with care, especially during the first few days of curing process.
10. It takes seven days till the Epoxy reaches its optimal hardness and strength. Epoxy gets harder and harder everyday of its life.

For further advise, please refer to our brochure, website or contact technical team at Shimicoat.

DISCLAIMER

Material Safety Data Sheet, Technical and Environmental Data Sheet can be provided upon request.

The information provided in this document is guidance only and considering the uses of this product are beyond the seller's control, the product is sold without guarantees or warranties. Warranties and guarantees shall be governed by SHIMICOAT Standard Terms of Sale. The purchaser shall make its own tests to determine the suitability for their specific application, and Shimicoat Pty Ltd is taking no responsibility for misuse of the product. The purchaser assumes all risk of use and handling of this product. This product will be happily replaced or credited back if defective. Beyond this, Shimicoat Pty Ltd is not liable for any damages caused by this product or its use.

This information and all further technical advice are based on our present knowledge and experience.

The customer is not released from the obligation to conduct careful inspection and testing of supplied goods.

End of Procedure.

