

RESIDENTIAL
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SHIMICOAT
SURFACE SOLUTIONS



Quartz

An Application Guide

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 is compatible with all SHIMICOAT resins.

Direction

Epoxy Quartz Floor Finishing System

SHIMI Quartz

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:
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5. EpoDil – Epoxy Diluent / Thinner



Tools:

1. Electric mixer or stick for missing 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 30minuts 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.



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”.

DISCLAIMER

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

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