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SHIMICOAT
SURFACE SOLUTIONS



Slip Resistant Floor

SILICA SAND

An Installation Guide

Following is a step by step guide to install Slip Resistant Epoxy 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. Silica Sand 600 Micron
4. Ultra Clear Epoxy Topcoat (Indoor), UV Resistant Topcoat (Outdoor)
5. Diluent / Thinner

Tools:

1. Electric mixer or stick for missing resin
2. Brush and Rollers
3. Extendable Handle / Pole
4. Buckets
5. Vacuum or blower to clean up the surface
6. Spike shoes



 MATERIALS  CHEMICALS  RESINS  EQUIPMENT

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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. 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 Sand 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 30-60sqm floor.
3. Apply the basecoat epoxy to corners, edges first then the main floor.
4. While still wet, broadcast Silica Sand 600 micron evenly to point of rejection, full Broadcast. DO NOT apply Partial Broadcast, as it may look patchy.
5. Remember wet-edge allowance, always leave a wet skirting (20-30cm) to be sanded with the next area of coating. Avoid coating over sands.
6. 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.



Topcoat Application:

1. Test to ensure fully cured by twisting your thumb over the sand surface. It should feel solid and dry with strong bonding of sand to epoxy surface.
2. Test for dryness by twist and turning your thumb over the surface and ensure sands are attached and boned.
3. Use a coarse broom and dustpan to collect and recover excess sand.
4. Use a garden blower or vacuum to compile excessive sands and recover unbound sands from the surface as much as you can.
5. Clean the surface and blow out any loose sands from floor.
6. Mix the second batch of Premium Tinted Epoxy in your choice of colour in accordance to label instruction and pour onto the surface. If outdoor and under direct sunlight, you may consider using Polyurethane which is UV stable and Non-Yellowing.

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.

7. The pot life of Premium Tinted Epoxy is 45min, plan your work to be completed well within 45min.
8. Ideally, mix 4Lt at a time.
9. When, you are happy with the topcoat, take the masking tapes off the walls as it will be too hard to take off once cured.



10. Clear the floor, wipe and clean all your tools.
11. Let it cure over-night (16 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.
12. 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.

End of Procedure.