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SHIMICOAT
SURFACE SOLUTIONS



Epoxy Flake Floor Finishing System

An Installation Guide

Following is a step by step guide to install Epoxy Flake 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. Flake in your choice of colour and design
 - a. Full/Dense/Bodied Broadcast: 0.5kg/sqm
 - b. Partial/Sparse/Light Braodcast: 100g/sqm or any ratios (personal choice)
4. Ultra Clear Epoxy Topcoat (Indoor), UV Resistant Topcoat (Outdoor) or AquaSealer Acrylic/Polyurethane
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. Scraper (ONLY for full broadcast 4.5Kg/10sqm)
7. 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 Flake 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. While still wet, broadcast flake at your desired density, Full Broadcast or Partial Broadcast.
 - a. Full/Dense/Bodied Broadcast: 0.5kg/sqm
 - b. Partial/Sparse/Light Braodcast: 100g/sqm or any ratios (personal choice)
5. Remember wet-edge allowance, always leave a wet skirting (20-30cm) to be flaked with the next area of coating. Avoid coating over Flakes.
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 on flake. It should feel solid and dry with strong bonding of flake to epoxy surface.
2. Test for dryness by twist and turning your thumb over the surface and ensure flakes are attached and boned.
3. Use a garden blower or vacuum to recover excess and unbound Flakes from the surface.
4. Use a floor scrapper on low angle on both direction to achieve smooth finish surface.
5. Use a blower to remove all flakes from floor.
6. Mix your Clear Topcoat Epoxy (Indoor) or Polyurethane (Outdoor) 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.

7. The pot life of Ultra Clear Epoxy is 30min, plan your work to be completed well within 30min.
8. Ideally, mix 3Lt 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 when 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.



Please view our Youtube Epoxy Flake Floor Installation:

https://www.youtube.com/watch?v=yFzv5Mqb_5w



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

End of Procedure.

DISCLAIMER

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

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