



Innovative & Decorative Concrete Technology

## Hi-Crete Decorative Systems Pvt. Ltd.

Aseem Bungalow, Plot No. 36, Sant Eknathnagar, Part- 2,

Survey No. 680/2, Bibwewadi, Pune - 411037

Tel: +91-9175761991

E-mail: [hicretesystems@gmail.com](mailto:hicretesystems@gmail.com) Website: [www.hicretesystems.com](http://www.hicretesystems.com)

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### Method Statement Of Designer Metallic Epoxy Flooring

Metallic Epoxy Floors (Sometimes Called Metal Epoxy Floors) Are Long Lasting And Durable—even In High-traffic Indoor Spaces. Like Other Epoxy Floor Systems, They Are Resistant To Moisture, Impact, Abrasion, Stains, Chemicals, Oil, And Grease. Additionally, They Are Quite Beautiful. You Can Customize Their Look, And They Are Available In Many Colors.

Designer Epoxy Is 100% Solid Metallic Epoxy Flooring System Design To Create Vibrant, Elegant & Exotic Looking Seamless Interior Decorative Floors.

#### **Sub Base Requirement:**

***(Providing Required Sub Base Is In Client's Scope)***

This Treatment Requires To Be Done Only On Any Strong, Stable, Leveled Surface.

It Could Be:

- Concrete / Trimix Surface
- Tiled Surface
- Moisture Should Be Below 5%
- No Oil Contaminated Floor

#### **Material Required:**

***(In The Scope Of Hicrete Systems)***

- |                                 |                           |
|---------------------------------|---------------------------|
| 1 EP-Primer - A (Resin)         | 7 EP - Color Paste        |
| 2 EP-Primer - B (Hardener)      | 8 SL 100 (Silica Filler)  |
| 3 EP-Underlay - A (Resin)       | 9 SL 200 (Silica Filler)  |
| 4 EP-Underlay - B (Hardener)    | 10 Metallic Pigments      |
| 5 EP- Topcoat SL - A (Resin)    | 11 Hicrete 2KPU WB Sealer |
| 6 EP- Topcoat SL - B (Hardener) |                           |

#### **Tools Required:**

***(In The Scope Of Hicrete Systems)***

- 1 Floor Scarifier
- 2 Diamond Grinder
- 3 Hand Grinder
- 4 Vacuum Machine
- 5 Mixture Machine
- 6 Notch Trowels
- 7 Spike Roller
- 8 Spike Shoes & Other Mics. Tools

**Sub Base Preparation:*****(In The Scope Of Hicrete Systems)***

The Existing Surface To Be Scrubbed With Mechanical Orbit Sander / Wire Brush, Pneumatic Chisel / Hammer Etc To Remove Loosely Bonded Laitance Dust, Dirt, Loose Particles. Exhaustive Scarifying (Vacuum Assisted) / Exhaustive Diamond Grinding (Vacuum Assisted) Will Be Done On The Existing Old Flooring To Have Good Mechanical Key Formation To Get The Rough Textured Surface To Have A Best Boding To Subsequent Epoxy Top Coating. Now This Surface Is Ready To Take Priming. (Before The Application Of The Primer, The Moisture Content In The Concrete Will Be Checked By Elecometer / Moisture Meter. The Acceptable Moisture Content Limit For Installation Of Epoxy Flooring Is 5% For Concrete.)

**Primer Application*****(In The Scope Of Hicrete Systems)***

Once The Surface Preparation Is Completed, Clean The Area By Mopping & Vacuuming To Remove Any Dirt, Dust & Any Foreign Materials  
Mix The Hicrete Primer (EP-Primer A Resin & EP-Primer B Hardener) In 2:1 Ratio With Mixture Machine In A Bucket.  
Pour The Mixed Materials On Cleaned Floor & Apply The Primer Evenly By Trowel In 2 Coats.  
Apply The 2nd Coat Only After 1st Coat Is Completely Dried.  
Allow The 2nd Coat Dry Completely To Proceed Further.

**Underlay Application*****(In The Scope Of Hicrete Systems)***

Divide The Entire Area In Small Area In Batches According To The Treatment Thickness & Mark The Batches On Floor. Mix & Install The Underlay Materials Made by EP- Underlay – A (Resin) & EP- Underlay – B (Hardener) & Silica Filler (SL 100) In Required Treatment Thickness Using Different Notch Size Trowels & Rolling Back With Spike Rollers To Remove The Air Interrupted In The Screed. (Resin : Hardener = 1:1) Allow It To Dry.  
On The Next Day, Lightly Sand The Entire Area Using Sander Machine, Remove The Dirt, Dust From The Floor & Apply One Scratch Coat Made By EP- Underlay – A (Resin) & EP- Underlay – B (Hardener) By Trowel.

**Colored Top Coat (Black / White)*****(In The Scope Of Hicrete Systems)***

Same Like Underlay, Mark The Batches On The Floor According To The Thickness Required Of Top Coat. Mix The Top Coat Materials EP- Topcoat SL - A (Resin) + EP- Topcoat SL - B (Hardener) + EP - Color Paste (Black / White) + SL 200 (Silica Filler) With A Mixture Machine.  
(Resin: Hardener = 2:1) & Apply The Same With Notch Trowel & Back Rolling With Spike Roller.  
If You Need Darker Shade In Metallic Epoxy Then Apply Black Epoxy Coat & If You Need Lighter Shade In Metallic Epoxy Coat Then Apply White Epoxy Coat.  
Allow It To Dry Overnight.

***Metallic Epoxy Coat******(In The Scope Of Hicrete Systems)***

Next Day, Sanding Of Entire Area Is To Be Done Using 100 No. Polishing Pad Attached With Hand Grinder. Remove All The Dirt / Dust From The Floor By Dry Mopping Or Vacuuming. Mix The Metallic Pigment As Per Dosage Required By Client With Hicrete Clear Epoxy Top Coat Resin & Hardener. (You Can Mix Multiple Colors In Separate Bucket.)

Pour The Mixed Materials Randomly On The Floor To Have A Varigated / Random Look. Sprayed The Materials Using Knotch Trowel / Squeegee Evenly On Entire Floor. Back Rolling With Spike Roller Is Expected To Remove The Air Bubbles From The Applied Materials & For Perfect Self Leveling Of The Materials.

***Epoxy Topping Treatment******(In The Scope Of Hicrete Systems)***

Once The Staining Is Completed And Area Is Completely Dried. You Can Start With Epoxy Topping Treatment.

Mix The Clear Epoxy Topping Materials Thoroughly By Mixture Machine And Apply The Same By Hard PU Roller / Knotch Trowel & Allow It To Dry Completely. (You Can Use Spike Roller To Remove Interrupted Air In Laid Materials.)

***Sealer Treatment******(In The Scope Of Hicrete Systems)***

Once The Clear Epoxy Is Dried Completely, Normally Overnight, Mix The Hicrete 2K PU WB Sealer Gloss / Matt Thoroughly With Mixture And Apply The Same Using PU Roller In 2 Coats. Apply 2nd Coat Only After 1s Coat Is Completely Dried.

Allow It To Dry.

**Light / Foot Traffic Is Allowed After 24 Hrs And Heavy Traffic / Furniture Fixing Is Allowed Only**