



Innovative & Decorative Concrete Technology

Hi-Crete Decorative Systems Pvt. Ltd.

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Method Statement Polished Concrete

A Polished Concrete Floor Has A Glossy, Mirror-Like Finish. The Design Options For Polished Concrete Are Vast. Using Different Levels Of Concrete Polishing Steps We Can Also Control The Reflectivity Of The Floor. Polished Concrete Is Popular In Commercial Buildings Because It Is Easy To Maintain. Normal Concrete Can Be Polished To A Level That You Can See Your Reflection In Concrete. Concrete Can Be Colored And Then Polished.

Material Required:

(In The Scope Of Hicrete Systems)

- 1 Hicrete Dura Hard (Colour Hardener)
- 2 SG Granular Pigments
- 3 Hicrete Stains
- 4 Hicrete Densifier (Lithium Base)

Tools Required:

(In The Scope Of Hicrete Systems)

- 1 Special Concrete Polishing Machine
- 2 Polishing Tools (Metal & Resin Grits)
- 3 Other Mics. Tools

Sub Base Requirement:

Polished Concrete System Can Be Done On Both Old Concrete Surface Or Newly Casted Concrete Floors (After Curing Period Of 28 Days).

In Case Of Old Concrete Floor:

The Floor Should Be Free From All Oil And Rust Elements.

If The Existing Concrete Has Any Cracks / Potholes Etc. All Those Should Be Treated 1st And Should Be Filled With The Hicrete Patch - It If Required.

The Concrete Surface Should Be Fairly Levelled And Power Floated / Lightly Broomed.

In Case Of Newly Casted Concrete Floor:

The Concrete Grade Should Be Maintained Above M25 While Casting The New Concrete Floor.

Concrete Should Be Casted In Proper Slops And Levels Should Be Maintained During The Casting.

Powder Floating Should Be Done To Achieve A Desired Finish For Polished Concrete.

While Casting The New Concrete It Can Be Coloured In 2 Ways:

1. Using Hicrete Dura Hard Special Polishable Hardeners (Colouring The Concrete Top Only)
2. Using SG Granular Pigment To Colour The Full Depth Of The Concrete.

Curing:

(In the scope of Client)

One Or Two Weeks Of Curing Required After Stamping.

Joints:

- Control Joints Should Be Spaced A Max Distance Of 24-36 Times The Slab Thickness.
- Control Joints Should Be Cut To The Depth Of At Least 1/4 Slab Thicknesses Using Electrical Saw Immediately After Concrete Has Set.
- If The Slab Is Abutting Other Building Element Such As Manholes, Column, Walls And Foundations Create An Expansion Joint & Fill It With Expansion Material Before Casting The Concrete Against It.

Concrete Polishing:

(In The Scope Of Hicrete Systems)

Cleaning The Surface, And Removing Loose Particles, If Any.

Start The Floor Grinding Using Grit # 25 To Remove All The Foreign Material, Loosely Bonded Materials Etc.

Continuing The Grinding With Step 1, Step 2 & Step 3 (Grit #50, #100 & #200)

DENSIFIER APPLICATION-

(Surface Should Be Clean & Wash With The Fresh Water After Completion Of Surface Preparation And Before Densification).

The Second Step Is To Densify The Floor With Liquid Floor Densifier. It Deeply Penetrates Into Pores Of The Concrete And Chemically Reacts To Harden And Densify The Floor By Filling-In Pores And Creating A Dense Surface.

It Can Be Applied By Pouring Directly Or Can Be Diluted Into Water In 1:2 Ratio On Newly Laid Trimix /VDF/Laser Screed Flooring And Spreading Evenly With A Soft-Bristled Broom. Initially Concrete Surface Must Be Keep Wet For Minimum 30 Minutes By Densifier.

Saturate The Surface With The Densifier At Approximately 45-60 Sqft Per Ltr.*

*(Actual Consumption May Vary Depending Upon The Surface Conditions).

It May Become Slippery After 30 -40 Min (Depending Upon Weather, Temperature And Wind Conditions), Lightly Mist The Surface With Water. Agitate The Floor With A Broom To Aid The Penetration. Wait For 10-15 Min To Make It Slippery Or Gel-Like A Second Time Than Flushes The Surface With Water. And Remove All Extra Material/Water From The Surface.

Leave The Surface 8-12 Hours For Dry Curing And For Next Process.

Continue Polishing The Floor Using Step 4, Step 5 & Step 6, (Grit #400, #1000 & #3000)

Final Floor Cleaning By Using Floor Burnisher High Speed Walk-Behind Or Ride-On Machines Capable Of Generating 1000 To 2000 Revolutions Per Minute And With Sufficient Head Pressure.