

# ELEGANCE CORPORATION

ONE STOP FOR ALL CONCRETE SOLUTIONS-  
BUILDING STRONG FOUNDATION, EVERY TIME!

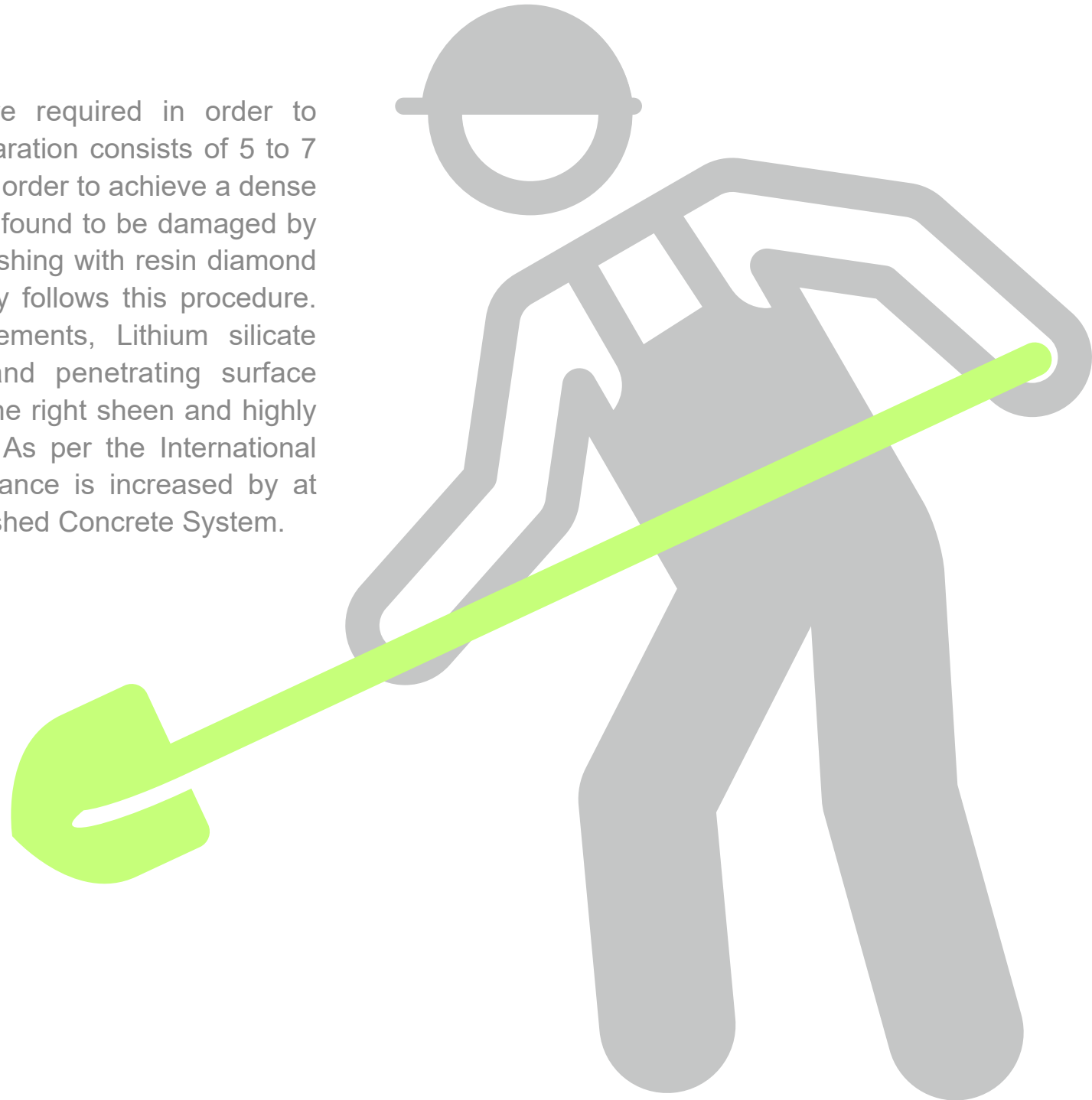
## FLOOR DENSIFICATION SYSTEM

Elegance Concrete Solution offers the "Prep To Polish" signature Concrete Polishing & hardening system, developed by Substrate Technology Inc. (USA) and is now available in India, which is best suited for Industrial Units, Retail outlets and warehousing facilities with outstanding warranty of 15 years. Elegance Concrete Solution unique Polished Concrete System eliminates the need of continuously replacing the floor coverings thus making it value for money proposition. The Polished concrete flooring is also becoming the preferred choice of the ones looking for ultimate NO WAX / EPOXY flooring options. Concrete floors may wear out due to multiple reasons like surface abrasion, de-lamination, etc. in the due course of its use, but regardless of age, the concrete surface can be polished using our signature process.



## PROCEDURE DETAILS

Moreover, no special acid agents are required in order to prepare the surface and the initial preparation consists of 5 to 7 steps of surface grinding. This is done in order to achieve a dense level as top surface of concrete is often found to be damaged by pot holes, dusting, soft and porous. Polishing with resin diamond pads up to 3000 grit level subsequently follows this procedure. Additionally, based on specific requirements, Lithium silicate based Nano liquid floor hardeners and penetrating surface densifiers are also used for arriving at the right sheen and highly increased surface abrasion resistance. As per the International studies the top surface abrasion resistance is increased by at least 5 times after the application of Polished Concrete System.



## FLOOR HARDENING SYSTEM

Elegance Concrete Solution unique floor / surface hardening system has a supremely high productivity rate while ensuring the best shines and polish. Elegance Concrete Solution uses ride on type trowel machines, which are 80% faster than the traditional concrete floor polishing equipment. The use of trowel polishing system for grinding, polishing & densification is gaining more popularity, partly because to the challenge of a tight labor market. But a shorter and quicker timeline and the resulting cost savings are the major factors.

Trowel based hardening system has a wide spectrum of usage that is apt for both new and old industrial floors with large square footage where traditional grinding and polishing is not a good option due to timeframe, budget or other constraints. The system and chemicals used by Elegance Concrete Solution ensures surface hardness increase by at least 150%. Trowel polishing machine enhances your flooring to give the desired concrete finish, from matte to glossy, at a faster pace as compared to traditional polishing.



## WHERE IT CAN BE USED?

Recommended for use wherever a dense, wear resistant, architectural pleasing low maintenance floor is desired.

- ➔ Manufacturing
- ➔ Commercial
- ➔ Warehouses
- ➔ Sports Arenas
- ➔ Airport Facilities
- ➔ Institutional Facilities
- ➔ Residential
- ➔ Convention Centers
- ➔ Airplane Hangers
- ➔ Schools
- ➔ Railway Station
- ➔ Bus Station



## CONCRETE DENSIFIER - WHY?

### ➔ **Increases Surface Hardness**

Concrete densifiers chemically react with the free lime (calcium hydroxide) in concrete to create calcium silicate hydrate (CSH), which fills the pores and strengthens the surface. This results in a harder, more durable surface that can better resist wear and tear.

### ➔ **Reduces Dusting**

Untreated concrete naturally produces fine dust due to the release of loose particles from the surface. Densifiers eliminate this "concrete dusting" by sealing the pores and hardening the surface.

### ➔ **Improves Durability**

Densifiers protect against abrasion, impact, and heavy traffic, making them ideal for areas subjected to industrial loads, high foot traffic, or machinery use.

### ➔ **Enhances Resistance to Stains and Moisture**

By sealing the pores of the concrete, densifiers reduce its porosity, making it resistant to water, oils, and other staining agents. This helps maintain the surface's appearance and extends its lifespan.

### ➔ **Prepares Concrete for Polishing**

A densifier is often used as a preparatory step for polished concrete floors, ensuring a harder, smoother, and more reflective surface. The densifier helps achieve a high-gloss finish with minimal maintenance requirements.

### ➔ **Eco-Friendly Solution**

Concrete densifiers are often water-based and non-toxic, making them an environmentally friendly option for treating floors. They help in reusing existing concrete surfaces instead of replacing them, reducing material waste.



## CONCRETE DENSIFIER - WHY?

### ➔ **Cost-Effective Maintenance**

Treated surfaces are easier to clean and maintain since densifiers minimize the penetration of dirt and spills. There's no need for frequent sealing, waxing, or coatings, saving long-term maintenance costs.

### ➔ **Compatible with a Wide Range of Applications**

Densifiers work on new or existing concrete surfaces and are versatile enough for use in warehouses, garages, retail spaces, and even residential interiors. Improves Lifespan Densifiers extend the life of concrete by protecting it from common issues like cracking, dusting, and surface degradation.

### ➔ **Boosts Aesthetic Appeal**

The use of a densifier enhances the visual appeal of concrete by creating a uniform, smooth surface that can be polished to achieve a matte or glossy finish.

# CONCRETE DENSIFIER

## FLOOR DENSIFICATION APPLICATION TREATMENT PROCESS

### ➔ Surface Cleaning

Thoroughly clean the floor surface to remove dust, debris, oil, or any other contaminants. Ensure the surface is dry and ready for further treatment.

### ➔ Floor Cutting Process with 60-Grit Pad

Begin the surface preparation with a 60-grit pad to remove surface irregularities and open the floor pores for chemical application

### ➔ Floor Cutting with 100-Grit Pad

Continue the refinement process using a 100-grit pad to achieve a smoother surface for optimal chemical absorption.

### ➔ Surface Cleaning for Chemical Application

Clean the floor thoroughly after the cutting process to remove any residue or dust created during grinding. Application of Sodium Silicate-Based Liquid Hardener. Evenly apply the sodium silicate-based liquid floor hardener to the surface. Allow the chemical to soak into the floor for 12-14 hours to penetrate and strengthen the concrete substrate.

### ➔ Chemical Cutting with 200-Grit Pad

Perform chemical cutting using a 200-grit pad to further refine the floor and remove excess chemical residue.

### ➔ 400-Grit Polishing Process

Polish the floor with a 400-grit pad to enhance smoothness and prepare the surface for the next polishing stages.

### ➔ 800-Grit Floor Polishing for Shine

Use an 800-grit pad to achieve a noticeable shine and improve the floor's overall aesthetic appearance. 1500-Grit Polishing, Further enhance the floor's gloss and reflectivity by polishing with a 1500-grit pad.

### ➔ 3000-Grit Final Polishing

Perform the final polishing with a 3000-grit pad to achieve a high-gloss finish and maximize floor durability and shine.

## IMPORTANCE OF POLISHING

Polishing a concrete surface after applying a densifier is a critical step to fully unlock the benefits of the densifier and create a functional, long-lasting, and visually appealing floor. The densifier works by chemically reacting with the free lime in the concrete, forming a hardened crystalline structure within the pores. While this process strengthens and seals the surface, it leaves the texture and appearance relatively unchanged. Polishing refines the surface by mechanically grinding and smoothing it, transforming the hardened concrete into a uniform, polished finish.

The polishing process enhances the densifier's effect by exposing and refining the hardened calcium silicate hydrate layer created during the chemical reaction. This makes the surface not only stronger but also more resistant to wear and tear. Additionally, polishing removes surface imperfections and creates a dense, smooth surface that reduces porosity, further protecting against moisture penetration, staining, and contaminants.

Beyond functionality, polishing dramatically improves the surface's appearance. It creates a sleek, reflective finish that amplifies the natural beauty of concrete, revealing any aggregates or decorative features within the slab. This polished surface increases light reflectivity, making spaces feel brighter and more spacious, while also reducing energy costs for artificial lighting.

Polishing also significantly reduces maintenance requirements. The smooth, non-porous surface resists dirt and grime accumulation, making it easier to clean and maintain. Unlike untreated concrete, polished surfaces don't require frequent resealing or waxing.



SOME OF  
OUR CLIENTS



AND MANY MORE...

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