



Concrete resurfacing with Neoflor 3010 at Shell, Bangalore

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INTRODUCTION TO NEOCRETE'S CONCRETE RESURFACING TECHNOLOGY

Written by Mr.B.M.Nagarajan (Director)

An inexpensive alternative to removing and replacing existing aged, spalled concrete can be offered by resurfacing concrete.

If you have concrete that starts to reveal its age, you have two alternatives:

- Demolish the old surface and drain it, prepare the foundation and pour out a fresh slab.
- To restore the slab to a new and fresh look, use a resurfacing technique.

Resurfacing is a very good choice if the issue with your concrete is just superficial cracking, discolouring or slight chipping or spalling. A concrete resurfacer is a special cement product that mixes regular Portland cement, sand, polymer modifiers and other additives to provide compensation for adhesion and shrinkage. It is made to be applied in very thin coats, unlike other cement products, and can be stronger than the concrete to which it is applied. This offers a nice, robust, wear-resistant surface that is built to withstand heavy traffic.

Why does concrete needs resurfacing?

- To improve aesthetics and ambience
- To remove undulations in the concrete that is to receive carpet, vinyl, wooden or other polymeric flooring
- To overcome defects in existing concrete floor
- To enhance resistance to penetration of oil, grease, water, chemicals etc
- To reduce/eliminate dust generation
- To improve abrasion resistance
- To facilitate material movement and reduce maintenance cost
- To enhance safety to workmen



Product : Neocrete HDF
Project : Nestle

WHAT ARE THE OPTIONS FOR EXISTING CONCRETE?

Written by Mr. Balaji Ravikumar (Regional Manager - South)

WHY CONCRETE FLOORS

- Although concrete provides most of the industrial flooring substrate, it does not serve as a good long term wear surface due to the nature of the product.
- Continuous traffic will cause concrete to dust and spall, which can cause severe damage to sensitive equipment as well as human health hazard.
- Exposure to impact, vibration and heavy loads will result in cracks and potholes.
- Moisture and chemicals will penetrate the porous surface and can cause a variety of physical and chemical changes to the concrete itself. In extreme conditions these chemicals may eventually pass through the concrete to contaminate the ground or aquifer system.
- In addition, clean industrial environments, such as food, beverage and pharmaceutical applications, require finished concrete to seal the surface preventing contamination from the substrate.

WHAT ARE THE COMMON DEFECTS IN CONCRETE FLOORS



Concrete Spalling



Affected by Chemical Spillage



Salt Finish Concrete



Cracking



Discoloration



Scaling



Undulated Concrete

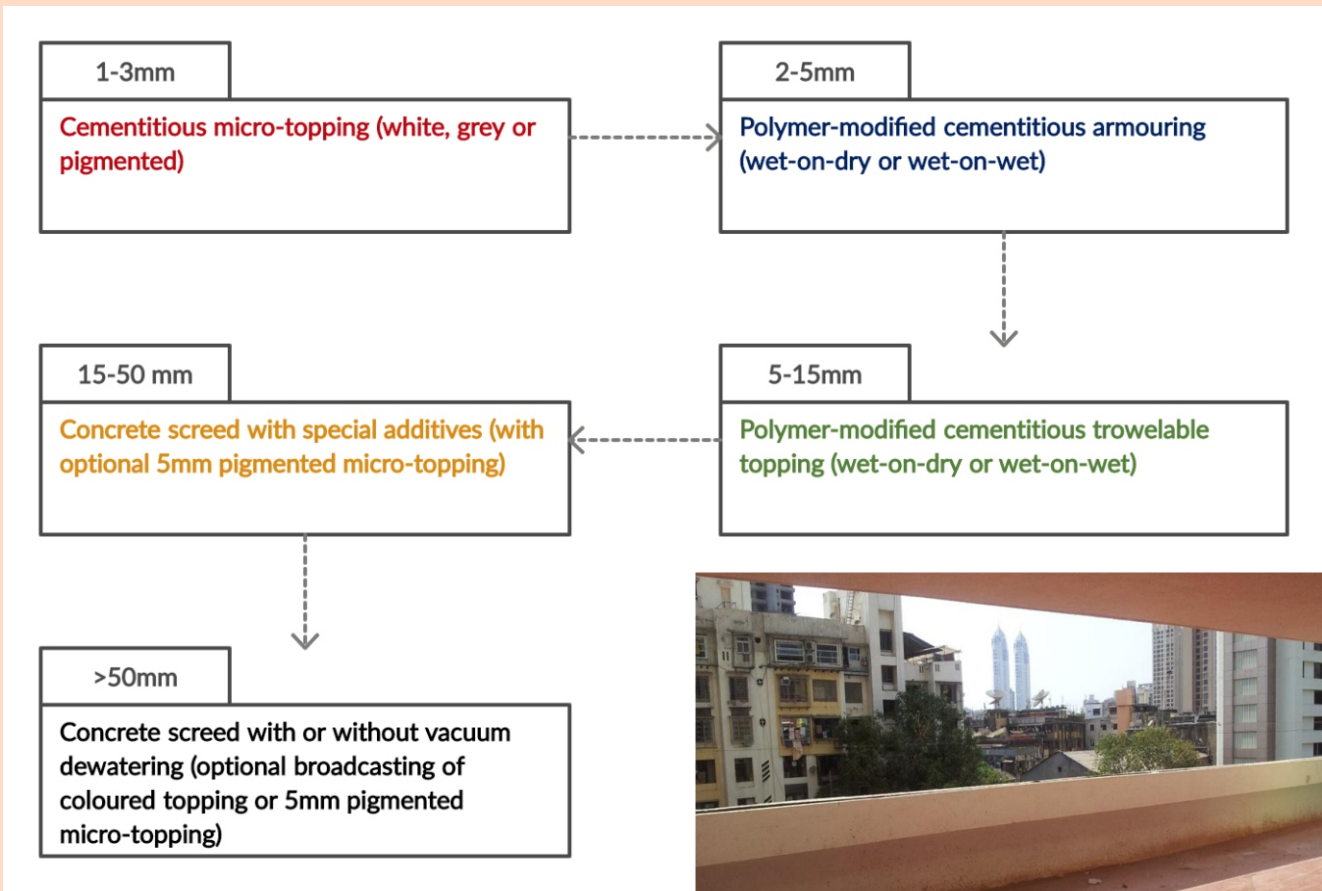


How do we restore these floors??

It's very simple, just ask Neocrete the flooring expert

GUIDELINES FOR PROTECTING THE CONCRETE BASED ON THICKNESS

Written by Mr. Balaji Ravikumar (Regional Manager - South)



Neoflor 3010 at Earth View, Mumbai



Neoflor 3010 at Witty school, Mumbai



Neocrete HDF in a food industry

Recommended Products:

Cementitious systems:

- 1-3mm : Neocoat UTM
- 2-5 mm : Neoflor 3010
- 5-15mm : Neoflor 3010 / Neoflor D'Cor 100
- 15-50 mm: Neoscreed additive (to be used with Concrete screed)
- >50mm : Coloured Ultra stamp powder

Specialty floorings:

- Aquacrete HDCC
- Neocrete HDF

Specialty floorings for special applications

- Water-borne epoxy cement composite flooring (with or without polishing)
- Water-borne polyurethane cement composite flooring

The above floorings are required when the following properties are desired:

- Where exceptional abrasion and impact strength are required
- Hot water/steam wash is required
- Specified chemical resistance
- As moisture barrier system

Application areas:

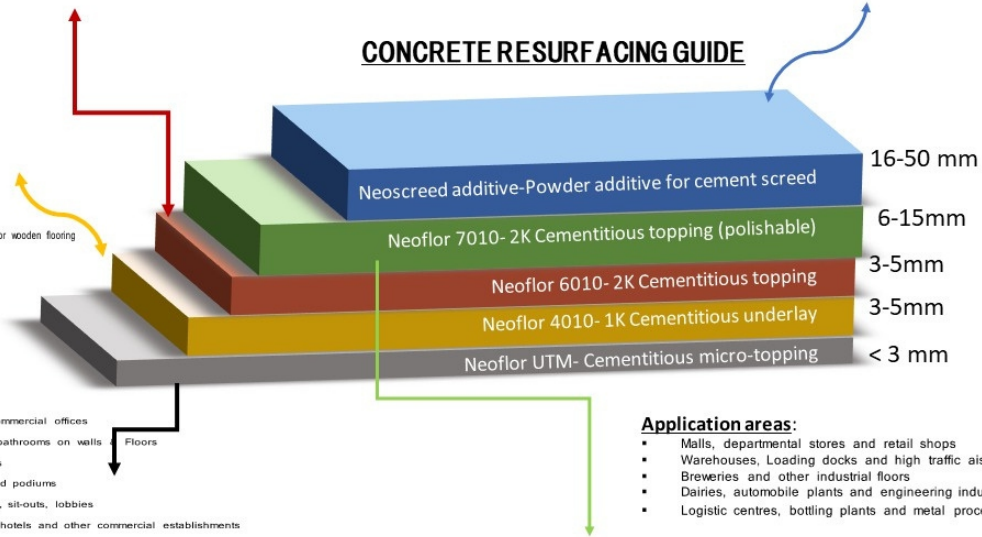
- ▶ Retail stores, offices and residences
- ▶ Healthcare centres
- ▶ Concrete resurfacing of industrial floors with light to medium traffic
- ▶ Logistic centres
- ▶ Server rooms, mechanical & utility areas
- ▶ Exterior patios, swimming pool decks and pathways
- ▶ For interior and exterior sports floors

Application areas:

- To produce leveling screed in parking decks prior to coatings
- Resurfacing screed for industrial floorings
- To provide high-strength floorings to loading docks and warehouses
- Fast-track flooring projects where traffic have to be commenced quickly
- Fast-set repair mortars for floors that are to receive epoxy/PU toppings

Application areas:

- Hard tennis court surface
- Porticos, swimming pool decks, patios.
- Pathways
- Car parks, podium floorings
- Hotels & offices as underlay for laying carpets, vinyl or wooden flooring



Application areas:

- ▶ Concrete resurfacing of commercial offices
- ▶ Kitchens, living rooms & bathrooms on walls
- ▶ HNI Houses, villas, resorts
- ▶ Water-bodies, fountains and podiums
- ▶ Exterior patios, pool-decks, sit-outs, lobbies
- ▶ Restaurants, retail stores, hotels and other commercial establishments

Application areas:

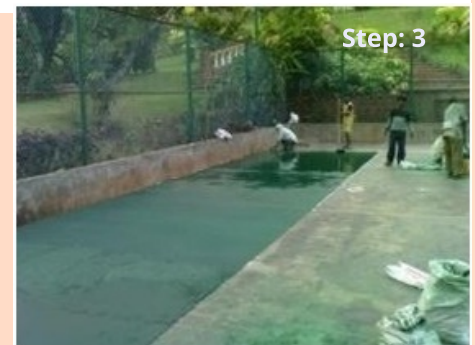
- Malls, departmental stores and retail shops
- Warehouses, Loading docks and high traffic aisle-ways.
- Breweries and other industrial floors
- Dairies, automobile plants and engineering industries.
- Logistic centres, bottling plants and metal processing plants



Step: 1



Step: 2



Step: 3



Step: 4



Step: 5



Step: 6

Concrete resurfacing with Neoflor 3010 at Goa

With so many options, the best choice out there for revitalising worn-out concrete seems to be concrete resurfacing. Remember, however, that if your concrete driveway has substantial damage from freezing or thawing, is heaving, or has sub - soil issues, you can end up ripping up the new surface and pouring concrete all over again,

rebuilding the whole driveway essentially. But it's best to check to see if this choice is right for you with the concrete pros. Check out our concrete resurfacing products for a cost effective projects for your customers.



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