



NIPPON DENSIFIER L

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Picture depicted Nippon Densifier L applies on surface, penetrates and seals the pore with hard crystalline form



Floor after treated with Nippon Densifier L



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Description:

Nippon Densifier L is a high performance, deep penetrating, nano lithium based liquid hardener, strengthener and densifier for concrete floors. It is applied on concrete surface, penetrates into micro channels of voids and react with free lime from cement hydrolysis to become hard crystalline material, and thus seals the voids and prevent water and chemicals ingress. The formation of hard crystalline phase also harden, strengthen and densifier the concrete and thus prevent dust generation and improves abrasion resistance. Combine with several steps of polishing and buffering action, it can create very dense, clean and shine surface, and thus enhance the concrete floor life span.

Uses:

Nippon Densifier L is suitable for new and old cured concrete floor applications such as:

- Warehouses
- Factories
- Car Parks
- Corridors
- Platforms
- Wall

Advantages:

- · Hardens and strengthens the concrete
- Enhance abrasion resistant
- Dust proof and create a cleaner surface
- Deep penetration and seal micro-channels in concrete against water penetration and chemical attack
- Prevent Alkali-Silica Reactivity
- High durable
- Easy maintenance
- Satin Sheen

Product Type	Product Grade	Packsize	Appearance	Substrate
Liquid Hardener	Nippon Densifier L	5L, 20L	clear	Concrete, masonry

Typical Technical Data

Form : slightly cloudy liquid

Colour : clear

Density : 1.2-1.4g/cm³
Odor : odorless
Combustibility : Incombustible

Minimal waiting time for penetration : 30mir

Coverage : 3-5m2 per litre on power trowelled surface, on textured surfaces, the coveregae

will be much lower. Actual coverage can vary depending on floor surface

conditions.

Chemical Resistance : Concrete treated with Nippon Densifer L and Nippon SealHard reduces surface

absorbency of water, food stains, grease, oils, solvents, acids and alkalis, and thus

prevent staining.

Application Method

Substrate



TECHNICAL DATA SHEET

The substrate shall be thoroughly cleaned of all foreign materials such as bond breakers, curing agents, form release oils, dust, and construction laitance by light mechanical grinding if required. Clean the surface with a high pH detergent and wash thoroughly. The surface with a high pH detergent and wash thoroughly. The surface shall be saturated with water and later excess water has to be removed. For super dense and high gloss surface, the concrete slab shall be go through several grinding process with different abrasive mesh size to ensure the surface irregularity is accepted.

Application

A low pressure, high volume sprayer shall be used to apply **Nippon Densifier L** so as to form a glistening sheen and to ensure complete saturation of the surface. Enough **Nippon Densifier L** shall be applied to keep the surface wet for at least 20 minutes. If applying by hand, spread the sprayed material with a lambs wool roller once or twice and then stop spreading. If spread excessively, it tends to dry in streaks. After 20 minutes, the excess material shall be removed and the surface shall be allowed to dry for 1-2 hrs. The floor is ready to use after the surface is dry. A light lithium residue may form on the surface after the floor is dry. This is the excess liquid floor hardener which was not absorbed and can be removed by a stiff broom or power sweeper. For an immediate shine, **Nippon Densifer** L shall be allowed to dry overnight and then polished with high speed buffer equipped with a black pad, followed by red pad.

Sealing

The concrete floors treated with **Nippon Densifier L** can be sealed **Nippon SealHard** with after 24 hours. The treated surface can also be painted for striping as there will be no chemical incompatibility between **Nippon densifier L** and **Nippon SealHard** treated surface and these paints.

Maintenance

The floors treated with **Nippon Densifier L** and **Nippon SealHard** benefit from good routine maintenance. Regular scrubbing with a high pH detergent is recommended and can increase the shine. Tires marks can be removed with a citrus type of cleaner. Oils and acids should be removed properly to prevent damage.

Storage and Transportation

This product has 12 months shelf life if it is stored in unopened packages at shaded or cool and adequate ventilation warehouse. This product should be away exposure from rain, sunlight, source of flame and heat. When transporting, care must be taken. It is always kept its packaging in a secure position. Failure to comply with the recommended storage may result in considerable premature deterioration of the product.

Safety Precautions

Nippon Densifier L is non-flammable and non-toxic water based formulation. It contains no solvents, or harmful levels of VOCs. It is not carcinogenic or mutagenic and may be used in food preparation areas. **Nippon Densifier L** is odourless during and after application and also allows concrete to breathe.