

## TECHNICAL DATA SHEET FOR

## FLOOR-PRO 605 METALLIC BASED FLOOR HARDENER

**FLOOR-PRO 605 METALLIC BASED FLOOR HARDENER** is a one-component ready-to-use dry shake floor hardener. It is formulated with cement and metallic aggregates of mineral origin which has good abrasion resistance, physical and mechanical properties.

### FEATURES

- High wearing resistance in areas subject to constant or frequently wet conditions without oxidizing
- Slip resistance finish
- Excellent impact resistance
- Good stain resistance and non-corrosive
- Good resistance to penetration of oil, grease and other contaminants
- Easy to maintain and clean

### APPLICATION AREAS

- Use for army camps, warehouses, ports, garages, engineering workshops, parking lots, service stations and factories.

### PHYSICAL PROPERTIES

<b>Chemical Composition</b>	Industrial source of crushed and graded metallic aggregates mixed with cement, pigments and additives
<b>Appearance</b>	Natural cement colour powder

### PERFORMANCE DATA

<b>Compressive strength</b>	90 N/mm <sup>2</sup> @ 28 days (ASTM C109)
<p>*Conditions such as installation process, inappropriate maintenance, short and long-term wear and use as well as surface contaminants (wet or dry) affects the slipperiness of flooring materials. To meet slip resistance requirement for wet conditions and/or surface contaminants (wet or dry), appropriate textured or anti-slip floor systems are recommended. Please contact Nippon Paint for further details and specifications.</p> <p>**The final floor finish shall follow the profile of the concrete, therefore appropriate levelling compound is recommended to treat the undulating surface.</p>	

### APPLICATION GUIDE

<b>Theoretical Coverage</b>	<div>Light duty 3 Kg/m<sup>2</sup></div> <div>Medium duty 4 Kg/m<sup>2</sup></div> <div>Heavy duty 6 Kg/m<sup>2</sup></div> <div>Very Heavy duty 9 Kg/m<sup>2</sup></div> <p>The consumption rate will depend on application method and the concrete mix ratio. This figure does not allow for surface profile and wastage</p>
<b>Curing time</b>	<p>24 hours @ 28°C (Foot traffic)</p> <p>The above value depends on the concrete and ambient condition of the area applied.</p>
<b>Substrate Temperature relative to dew point</b>	≥ 3°C
<b>Relative Humidity</b>	<85%

## APPLICATION METHOD

### Mechanical Application – Automatic spreader

- Spread FLOOR-PRO 605 METALLIC BASED FLOOR HARDENER evenly onto the concrete immediately after screeding
- The spreading can start almost immediately after the concrete has been levelled to allow for the hydration of FLOOR-PRO 605 METALLIC BASED FLOOR HARDENER.
- Compaction with the trowel can start as soon as the weight of the power trowels can be supported by the concrete.

### Manual Application

- Depending on the condition, remove the surface “bleed water” or allow it to evaporate.
- FLOOR-PRO 605 METALLIC BASED FLOOR HARDENER must be spread once the concrete can be stepped on, without leaving a print deeper than 3 -5mm.
- Periodical checking on the condition and development of the concrete time frame for each stage and sequence application.
- Sprinkle FLOOR-PRO 605 METALLIC BASED FLOOR HARDENER onto the screed concrete evenly in 2 stages. (First stage: 3 Kg/m<sup>2</sup>, Second stage: 3 Kg/m<sup>2</sup>)
- Care must be taken to apply the product without ripples on the concrete surface.
- Casting FLOOR-PRO 605 METALLIC BASED FLOOR HARDENER carelessly or further 2 metre from point of casting will reduce the consistency of finish.
- The first application must be worked into the slab followed immediately by the application of the second stage of FLOOR-PRO 605 METALLIC BASED FLOOR HARDENER in one application.
- Never add water to the surface when the product has been applied.
- FLOOR-PRO 605 METALLIC BASED FLOOR HARDENER results in the slab surface becoming “stiff” more quickly than usual.
- Careful trimming must take place along the edges where joining slabs are poured.
- Final finishing for closing pores and removing undulations can be achieved either by hand or trowel.

## LIMITATION

- Application of FLOOR-PRO 605 METALLIC BASED FLOOR HARDENER must not be carried in windy area or dry conditions.
- Do not use concrete where some cement has been replaced by fly ash, as this makes the mix sticky and less workable.
- Variations in concrete characteristics such water content and cement quality may lead to slight colour variation.
- To ensure optimum colour consistency, it is essential that the floor laying operation is clean and protected from dust and rain.
- Colour variation during the drying period is normal for this system.

## PACKAGING

25 Kg paper bag

## STORAGE AND SHELF LIFE

FLOOR-PRO 605 METALLIC BASED FLOOR HARDENER has a shelf life of 6 months from manufacturing date. The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed.

Handle with care.

### SAFETY PRECAUTION

- This product is intended for use by professional applicators. Refer to the safety information display on the container and in the safety data sheet (SDS) before using the product.
- Use this product in well-ventilated area, avoid skin contact, spillage on the skin should immediately be removed with suitable cleanser, soap and water.
- Eye should be well flushed with water and seek for medical attention immediately upon contact with this product.
- During the application, naked flame, welding operation and smoking is not allowed. Adequate ventilation should be provided.
- If you have any doubt regarding the suitability of use, refer to Nippon Paint for further advice.

### DISCLAIMER

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