

TECHNICAL DATA SHEET FOR

FLOOR-PRO 602 DRY SHAKE FLOOR HARDENER

FLOOR-PRO 602 DRY SHAKE FLOOR HARDENER is a one-component non-metallic cementitious dry shake hardener that is sprinkled onto wet and new screed. The product is formulated with selected granolithic concrete material which gives the concrete floor a hard-wearing surface finish.

FEATURES

- Non-metallic, non-rusting
- Hard wearing and high strength
- Good impact resistance
- Improves abrasion resistance of concrete by more than 30%
- Improve resistance to oil, grease and water penetration
- Easy clean

APPLICATION AREAS

- Warehouses, manufacturing plants, car parks, industrial floors, where wear durable and wear resistant floor is the most important.

PHYSICAL PROPERTIES

Chemical Composition	Industrial source of crushed and graded aggregates mixed with cement, and additives
Appearance	Natural Cement

PERFORMANCE DATA

Mohs hardness	7 – 8
Compressive strength	3 day - 45 N/mm ² 7 days - 55 N/mm ² 28 days - 70 N/mm ²

*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.

**The final floor finish shall follow the profile of the concrete, therefore appropriate levelling compound is recommended to treat the undulating surface.

APPLICATION GUIDE

Theoretical Coverage	Light duty 3 Kg/m ²	Medium duty 4 Kg/m ²	Heavy duty 6 Kg/m ²
	The consumption rate will depend on application method and the concrete mix ratio. This figure does not allow for surface profile and wastage		
Curing time	24 hours @ 30°C (Foot traffic) The above value depends on the concrete and ambient condition of the area applied.		
Substrate Temperature relative to dew point	≥ 3°C		
Recommended application temperature range	Minimum 6°C Maximum 40°C		

Relative Humidity	<85%
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SUBSTRATE REQUIREMENT

- Concrete or screed substrate should be a minimum of 25 N/mm² and adhesive pull off strength of 1.5 N/mm², free from laitance, dust and other contamination.
- The substrate should be dried up to 85% RH as per BS8204 and free from rising damp and ground water pressure.

APPLICATION METHOD

- FLOOR-PRO 602 DRY SHAKE FLOOR HARDENER should be applied to the surface of the freshly placed concrete once any bleed water has disappeared and the floating process does not disrupt the level of the slab.
- Premature application may affect durability and require a higher dosage rate.
- FLOOR-PRO 602 DRY SHAKE FLOOR HARDENER must never be used to dry excess bleed water.
- Using dry-shake method, the material should be broadcast uniformly across the surface, normally in two applications. Two thirds of material should be used in the first pass, with the final third being applied in the same manner but at 90 degrees to the first.
- It is recommended that the total number of m² being completed in each pour is calculated, and the correct number of pails placed equally around the slab in advance of application.
- Application of FLOOR-PRO 602 DRY SHAKE FLOOR HARDENER should not be carried out in strong wind, during rain or if the temperature fall below 6°C.

LIMITATION

- FLOOR-PRO 602 DRY SHAKE FLOOR HARDENER shall be broadcasted over the still fresh but stiff concrete base and should be placed in mark bays to ensure an even distribution of materials.
- Application of FLOOR-PRO 602 DRY SHAKE 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 602 DRY SHAKE 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

The information in this data sheet is given to the best of Nippon Paint's knowledge and practical experience. Users may consult with Nippon Paint on the general suitability of the product for their needs and specific application practices though it remains each user's responsibility to determine the suitability of the product for the user's particular use. The condition of the substrate and application are not within Nippon Paint's control. Therefore no implied conditions, warranties or other terms will apply to the Product. Nippon Paint does not and cannot warrant the results which the user may obtain by using the product. In no event will Nippon Paint be liable to the user for any kind of loss (whether direct or indirect) even if Nippon Paint was previously advised of it. In line with Nippon Paint's policy for continuous development, Nippon Paint reserves the right to modify the product and the information in this data sheet without prior notice. It is the user's responsibility to check with Nippon Paint for the latest version of this data sheet. This data sheet has been translated into various languages. In the event of any inconsistency, the English version shall prevail.