

Floor hardener



NON-METALLIC MINERAL DRY SHAKE FLOOR HARDENER

DESCRIPTION:

A ready to use mixture of cement, pigments, additives and hard aggregate of mineral origin. The particles have been specially selected for their shape, grading, high physical quality and mechanical performance.

Advantages

- Ready to use
- Good wear resistance
- High impact resistance
- Cost effective surface hardener
- Makes floor dust proof
- Non metallic and rust free
- Easy to clean
- Increased resistance to oils and grease
- Quality assured factory blending
- Suppresses superficial fibres in concrete

• 40 kg. Bag



Product Data Sheet

Product Information

Chemical Base	Natural mineral aggregates graded and mixed with cement
Packaging	40 kg bags
Appearance / Colour	Natural concrete grey powder
Shelf Life Storage	9 months from date of production Store in original, unopened
Conditions Bulk	packaging in dry conditions between +10°C and +30°C
Density	1.5 ± 0.1 kg/L at +27°C

Technical Information

Abrasion Resistance	~1.70 mm wear loss (IS:1237)
Surface Hardness	Between 8 and 9 (Moh's scale) (IS:13630 Part 13)
Compressive Strength	≥ 65 N/mm ² (IS:4031 Part 6)

Application Information

Consumption - Light duty	3.5–4.0 kg/m ²
Consumption - Medium duty	4.5–5.0 kg/m ²
Consumption - Heavy duty	5.5–6.0 kg/m ²
Layer Thickness	2.5–3.0 mm at ~5.0 kg/m ² dosage
Ambient Air Temperature	+5°C min. / +35°C max.

Relative Air Humidity	30% min. / 98% max.
Substrate Temperature	+5°C min. / +35°C max.
Foot Traffic	~72 hours
Fully Serviceable	~7 days

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

- The concrete deliveries must be of consistent quality.
- A concrete slump in the range 75 to 110 mm will normally give best results.
- The slab must be of good quality concrete with a minimum water/cement ratio consistent with the production of a fully compacted slab.
- The compressive strength must be a minimum of 20 N/mm².
- Air Entrained Concrete is not a suitable substrate for the application of dry shake hardeners.

APPLICATION

Application time for dryshake products is influenced by every variable which affects the placing of concrete, and can therefore vary substantially, depending on the prevailing conditions.

Dependent on the conditions, remove the surface bleed water or allow it to evaporate. Sprinkle konment Floor hardener onto the screed concrete evenly in 2 stages, first stage 60% and second stage 40%. Care must be taken to apply the product without creating ripples etc. in the concrete surface. The first application must be worked into the slab immediately followed by application of the second stage quantity of

konment® Floor hardener . Final finishing, closing pores and removing undulations can be achieved either by hand or powered trowel.

Please also note:

- Never add water to the surface where the dry shake has been applied.
- konment® Floor hardener results in the slab surface becoming stiff more quickly than usual. Careful trimming must take place along the edges where adjoining slabs are to be poured.

Periodical checking of the condition and development of the concrete will determine the correct time frame for each stage and sequence of application.

For mechanical application with automatic spreader and laser screed, the spreading can start almost immediately after the concrete has been levelled to allow for the hydration of the dryshake. Compaction with the trowel can start as soon as the weight of the power trowels is supported by the concrete. For manual application, the dryshake must be spread once the concrete can be stepped on, without leaving a print deeper than 3-5 mm.

LIMITATIONS

- The application of the dry shake powder must not be carried out in strong wind or in dry conditions.
- Variations in concrete characteristics such as water content and cement may lead to slight colour variations.
- Dry shake hardeners give a finish to concrete with some colour variation across the floor due to the natural variability of the concrete onto which they are applied.
- To ensure optimum colour consistency, it is essential that the floor laying operation is as clean and protected from the environment as possible.
- Colour variation during the drying out period is normal for this system and is to be expected.
- At low relative humidities, efflorescence can appear on the surface.
- At high relative humidities, bleeding, slower curing and hardening can occur and extended finishing operations be required.
- After application, do not expose such concrete surface to water and protect from rain or contaminants.

CURING TREATMENT

Cure Konment® Floor Hardener immediately after finishing using lean water. For chemical curing,

