



FLOOR TOP

FLOOR TOP provides a highly abrasion-resistant surface to concrete floors by the dry shake-on method, ensuring that the hardwearing surface bonds monolithically to the base concrete. It improves the strength & impact resistance of the concrete floor to allow heavy-duty movement. It is ideal for all industrial areas subject to the heaviest traffic, e.g., loading bays, trucking lanes, car parks, workshops, machine shops, ramps and spillways.

RECOMMENDED APPLICATION

Suitable for use in all cases where floors are subjected to severe mechanical wear and there is a need to apply special hard-wearing surface coverings, such as:

- Basements and cellars
- Mechanical workshops
- Garage for light vehicles
- Corridors and halls
- Aircraft hangars
- Storage rooms
- Parking areas
- Loading platforms

TECHNICAL SPECIFICATION

Appearance	Free Flowing Powder
Hardness	8 (Moh's scale of hardness)
Compressive strength	>60 Mpa
Foot traffic (Heavy Movement)	After 72 hours

Relative abrasion resistance (ASTM C779, Revolving Disc Method)

Revolving cycle time	Control	3kg/m ²	5kg/m ²	7 kg/m ²
30 min	0.45 mm	0.26mm	0.22mm	0.17mm
60 min	0.72mm	0.44mm	0.40mm	0.35mm

PACKAGING	COVERAGE	SHELF LIFE
25 kg	Heavy Duty : 8-9kg/m ² Medium Duty : 6-8kg/m ² Light Duty : 4-6kg/m ²	12 months from the date of packing. Should be stored in cool & dry condition, keep away from direct sunlight.





LIMITATION

- Not for use where operating and service conditions dictate a metallic aggregate surface hardener for more excellent abrasion and impact resistance.
- Not for use in areas exposed to acids and their salts or to materials known to attack or deteriorate Portland cement concrete rapidly.
- For concretes with optimised water-cement ratios shall not be broadcast more than 3 - 4 kg /m²
- Do not use water with a high salt value.
- Colour variation may occur due to natural variation in concrete.

HEALTH & SAFETY

- Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment during application
- In case of contact with skin, rinse with plenty of clean water and then cleanse with soap water
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.

BENEFITS & KEY FEATURES

-  **ABRASION-RESISTANT FLOOR**
-  **GOOD WEAR RESISTANCE**
-  **HIGH IMPACT RESISTANCE**
-  **HIGHLY DURABLE**
-  **NON-METALLIC**

DIRECTION FOR USE

BASE CONCRETE

The base concrete should have a minimum cement content of 300kg/m³. The concrete mix should be designed to minimise segregation and bleeding. The concrete should have the designed flow as per the structural requirement. The base concrete should be laid and compacted following good concrete practice. Accurate finished profile and minimum laitance build-up should be ensured. Particular attention should be paid to bay edges and corners to ensure full compaction.

The concrete deliveries must be of consistent quality. A concrete slump in the range of 75 to 110 mm will normally give the best results. Use of good concrete superplasticiser admixture is advised to obtain the optimum quality of concrete by reducing the water-cement ratio and good compaction properties.

MIXING AND APPLICATION

Application of top floor can begin when the base concrete has stiffened to the point when light foot traffic leaves an imprint of about 3 mm-7mm. Any bleed water should by now have evaporated. However, a wet "sheen" can still be seen on the concrete surface.

The top floor is applied in two stages.

- 1) The first application is made using 50% to 70% of the total material. The top floor is evenly broadcast onto the concrete surface. When the material becomes uniformly dark by the absorption of moisture from the concrete, this first application can be floated with wooden floats or large areas. A power trowel with a disc may be used. It is important, however, that the surface is not overworked.
- 2) Immediately after floating, the remaining top floor is sprinkled evenly over the surface. Again, moisture is absorbed and the surface can be floated in the same way as before. The final finishing of the floor using a power trowel can be carried out when the floor has stiffened sufficiently so that damage will not be caused. Repeated power trowelling would further improve the abrasion resistance.

CURING

- Use a proper curing agent for the treated concrete and protect it from staining.
- Use proper curing methods for the treated concrete.