

PERMA FLOOR TOP



NON-OXIDISING METALLIC AND NON-METALLIC FLOOR HARDNER

SPECIFICATION

BS 1047; BS3900 part F4 BS CP 204

DESCRIPTION

Perma Floor Top is a floor hardening compound based on non-oxidising metallic or non metallic aggregates a blend of ordinary portland cements and activating chemicals. Perma Floor Top is for use on green concrete of industrial floors to achieve high abrasion and impact resistance properties on the finished floors.

Depending upon the selection of aggregates Perma Floor Top is available in two grades.

- 1) Perma Floor Top AI: Based on non-oxidising metallic aggregates.
- 2) Perma Floor Top QZ: Based on non-metallic aggregates.

PERMA FLOOR TOP AI

A special grade of product based on aluminum oxide aggregates which makes the floor exceptionally hard durable and abrasion resistant. Floors treated with PFT-AI are resistant to oil and grease spillages and tend to be non slippery. Further these floors are resistant to spillages of acids and alkalis. These floors with stand constant spillages of water. Perma Floor Top AI treated floors are ideally suited for, engineering workshops, warehouses, abattoirs, service station etc.

PERMA FLOOR TOP QZ

Perma Floor Top QZ is based on non metallic quartz aggregates. Perma Floor Top QZ treated floors are ideal for places where chemical spillages are expected, and where metallic aggregates are not desired. Perma Floor Top QZ is used in concreting of floors for laboratories, chemical factories, breweries, shopping centres, super markets etc.

PRIMARY USES

Perma Floor Top products are designed for high abrasion and impact resistance properties to the concrete floors.

DIRECTIONS FOR USE

After floor concreting when the concrete is firm to take the weight of workman sprinkle Perma Floor Top at the desired rate on the green concrete and trowel it in with metal floats or power trowel. Care should be taken to see that concrete surface is just ready to receive dry shake powder. If delayed too much it will become unworkable and if Floor Top is sprinkled too early it will get mixed with the concrete and loose its utility. Sprinkling of Floor Top should be controlled such that an uniform quantity of the product is sprinkled through out. It may be suggested that broadcasting of Floor Top be done in two stages. The second stage of broadcasting done in a perpendicular direction to the first stage broad cast.

CURING

Curing should be carried out immediately after final trowelling has been completed.

PROPERTIES

Form	-	Powder
Colour	-	Dark Grey
Max Grain Size	-	2 mm
Hardness	-	7 on MOH'S scale
Shelf life	-	2 years

PRECAUTIONS

Floor being a very important utility member of any industrial or commercial unit sufficient care needs to be taken while designing and execution. The following precautions however need to be taken while concreting a floor.

BASE CONCRETING

The base concrete should be well designed incorporating atleast 350 kgs of cement per cubic metre of concrete and water cement ratio to be kept at a minimum to produce low slump concrete. Floor concrete needs to be well vibrated and power floated.

STRESS RELIEF JOINTS

While concreting in bay the size of the bay should be ideally 3m x 4m for 100 mm thick concrete. Concreting bay sizes can be increased with thickness of concrete increasing.

Every 12 meters a crack inducer joint and every 36 metres an expansion joint needs to be introduced. If long bay pattern of concreting is used as in case while using vacuum dewatering machine relief joints should be cut every 10 metres using a concrete saw. This joint is normally 6 to 10 mm wide and about 40 mm deep. This relief joint should be cut after 24 hours of concreting but before 72 hours. In this method also expansion joint becomes necessary every 36 metres in either direction.

COVERAGE

DRY SHAKE METHOD

Light duty	}	2 to 3.5 kg/m ²
Medium duty/		4 to 6.0 kg./m ²
Heavy duty		

PACKING

Available in 25 kgs sack.

SHELF LIFE

12 Months from the date of manufacture, if stored in dry and cool conditions.

QUALITY ASSURANCE

All "PERMA" branded products are manufactured under strict quality control supervision as per exact manufacturing specifications. Should you find the behaviour of the product varying from the claims in the data sheets please stop the use of the product and contact the nearest Perma staff or distributor.

STATEMENT OF RESPONSIBILITY

Perma branded Products when used in accordance with the current published directions for use, performs as per its data sheets/catalogue. The manufacturer and the distributor will not be responsible for other materials and conditions of inferior workmanship.

PERMA CONSTRUCTION AIDS PVT. LTD.

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