

# IRONYTE FLOOR HARDENER

**Dr. S. Bond**

IRONYTE powder is a metallic Aggregate-Tough; Ductile specially processed and sized graded particles of iron, combined with our exclusive chemical dispersing agent which enables the metallic hardener to move more easily into the surface. Cement plaster works on concrete by nature containing innumerable microscopic cells and these cells tend to disintegrated under constant pressure. Due to the chemical reaction IRONYTE powder, oxidation of the iron particles cause's expansion which results in greater density and strength under traffic and the metal tends to flatten and produce a smoother surface.

IRONYTE powder is usually applied to concrete floors intended to carry havy rolling loads, which often withstands bearing power two to five times greater than the of ordinary concrete floors. Due to compression and impact loads on the surface, crushing action takes place. This results in to heavy dusting and subsequently potholes in the concrete floors, which are great impediments in the smooth and normal function of a factory. The high compression strength of IRONYTE powder topping provides the necessary slip resistance, when moisture & oils comes in contact with the floor IRONYTE powder topping is a must to protect employees working under very wet conditions, for surefooted safety. It can be used effectively in the locations like platforms, bridges, traffice aisles, piers, industrial plants, terminals, warehouses etc.

A food product Companies, Dairies, Pharmaceutical works, dyes and chemical works are essentially required to be dust - proof and only IRONYTE powder provides dust proof flooring. IRONYTE is ideal, cost effective, wear resistant top / inner coat and for heavy duty industrial floor slabs. This is well graded, Rust resistant ferrous aggregate.



## ***IRONYTE FLOORING***

**MANUFACTURERS, SUPPLIERS & EXPORTERS**  
**ALL TYPES OF CONSTRUCTION MACHINERIES**  
**STEEL SCAFFOLDING / FLOOR HARDENERS**  
**CONSTRUCTION CHEMICALS & ROAD LAYING ÉQUIPMENTS**

## Areas Of Application

Engineering workshops / foundries / Railway platforms / locomotive sheds/ Parking areas/ cellars/ Concrete Roads / Pavement areas/Walking paths / Storage Godowns/ Rice Mills Floor / All Industrial floorings/All residential floorings in the cellars/ Run ways/Air Ports/ Bus depots / Shooting flat forms /Go carting / Power Stations /Utilities areas e.g. compressor, boiler & DG rooms/ Machine tool industries / Garages / Loading bays / Subways / Warehouses incl agricultural applications / All type of parking's . These should not be used in floors that are exposed to Strong inorganic Acids, their salts and liquid spillages.

## Application On Freshly Laid concrete Floors

Broadcast IRONYTE on fresh concrete slabs while the concrete is green but sufficiently set to take applicator weights (ideally able to limit foot impression to 3 mm depth). This should be done immediately after bleed water has evaporated.

- \* Spray 50% of total quantity & hand trowel.
- \* Spray the balance 50% at 90 degrees to first spray & hand trowel
- \* Apply power floater when surface sheen starts to disappear. This helps close pores & capillaries.
- \* Cure using wet burlap / gunny bags
- \* Avoid any traffic till the concrete has fully set & achieved design strength.

## Application as Granolithic Topping On Existing Floors

In this case a top screed of 12-50 mm is required on existing floor. Typical mix design is IRONYTE 50kg : Cement 200kg : Grit (3-6 mm) 600kg. Super-plasticizers to be used W: C ratio to be 0.38 : 0.42. However this needs to be confirmed by structural designers.

## Precautions

IRONYTE should be perfectly mixed with cement and later with granite chips . The ingredients should be free from dust and other foreign material and should be of high quality. Thorough mixing with cement is essential for an even dispersion of IRONYTE powder. For better results slow and steady troweling after the surface has started initial setting will give metallic surface. Correct proportion and procedure, as specified will obtain the best results. Ensure water contents in IRONYTE topping as low as possible for work ability. Prepare only such quantity of IRONYTE mixture which could be used within 30 minutes after adding the water to mixture. Do not allow dry cement of mixture of cement and sand to be sprinkled on the IRONYTE topping to speed up the work or to correct inequities in the surface. Cure the surface of IRONYTE topping, as directed for at least 10 days.

## Advantages Of Ironyte Topping

- \* Provides armor-like surface of flint-hard density.
- \* Provides non-porous, non-slippery and anti-corrosive resistance.
- \* Washable and absolutely sanitary.
- \* Adds many useful years of floor-life and eliminates expenses of troublesome and costly repairs.
- \* Dense, Durable, Dust-proof and wear & tear resisting floor Laid and maintained at a low cost.
- \* IRONYTE is a metallic compound of Scientifically & Chemically Processed sized graded iron.

## Salient Features

- \* Ideal for heavy duty floor, New Floor and old floors.
- \* Utilized with cement and aggregate to form a top layer of required thickness on a concrete floor.
- \* Helps in reducing recurring expenses due to strong resistance to heavy trucking.
- \* No Special technical person required.
- \* No effect on setting time of cement.
- \* Dust Proof, Water Proof, Oil and grease proof and also easily washable.
- \* Better than best in quality and cheaper than the cheapest in price.
- \* Prompt delivery and best services.

## Applications

S.NO	TYPE OF FLOOR	IRNONYTE POWDER REQUIRED
1.	Light Duty	(3.5 To 4.5) Kg / Sqm
2.	Medium Duty	(5.5 To 6.5) Kg / Sqm
3.	Heavy Duty	(6.5 To 7.5) Kg / Sqm



IRONYTE POWDER  
(Metallic Floor Hardner)



IRONYTE POWDER  
(50 Kgs BAG)

**Dr. S. Bond**  
**CONST · CHEMICALS**

(A Division of Dr.S. Bond Inc.Australia)

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NOTE: 1) MANUFACTURES HAS EVERY RIGHT TO CHANGE DESIGN AND SPECIFICATION OF THE PRODUCTS WITH OUT ANY INTIMATION  
2) PRODUCTION COSTS & MARKET PRICES VARY FROM PLACE TO PLACE & TIME TO TIME  
3) ALL LEGAL MATTERS ARE SUBJECTED TO HYDERABAD JURISDICTION ONLY

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