



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

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

## **Dr. S. BOND**

# **NON- METALLIC FLOOR HARDNER**

### **TECHNICAL DATA (HARD TOP)**

**Dr. S. Bond**

#### **DESCRIPTION**

Dr.S.BOND HARDTOP is a cementitious floor topping for industrial floors which is abrasion resistant. The unique formulation enhances the resistance of the floors to abrasion and gives hard-wearing performance against industrial use. This formulation is non-metallic and free from chloride.

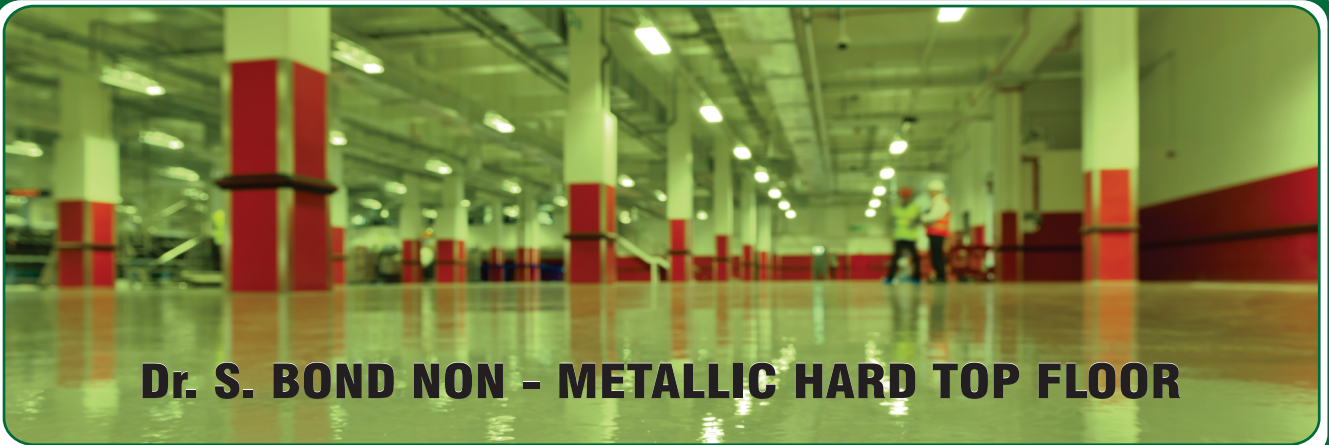
#### **CHARACTERISTICS**

Colour: Grey, Compressive Strength: 700 Kg/Cm<sup>2</sup> (as per IS 516-1959)

Abrasion Resistance : tested as per IS 1237-1980, Control: 100%

#### **ADVANTAGES / BENEFITS**

Dr.S.BOND HARDTOP is chloride free and hence does not result in corrosion of metals. It enhances abrasion resistance. It can be used for both interior and exterior floors. It cures to a dense non-porous surface making the floor resistant to absorption of oils, greases, gases and water. It aids compaction and hydration process to ensure improved mechanical properties of the finished floor. It is non-slip and anti skid in nature. It increases the durability of the industrial floors. It forms monolithic bond with base concrete and hence problems given by screed toppings are eliminated. It is economical and easy to use. It is resistance to oils, greases, etc.,



**Dr. S. BOND NON - METALLIC HARD TOP FLOOR**

<b>Traffic</b>	<b>Description</b>	<b>Consumption</b>
HEAVY	Traffic with very heavy duty wheels making impact, abrasion, grinding and sliding very high foot traffic	6.5 Kg/m <sup>2</sup>
MEDIUM	Traffic with medium duty wheels making impact, abrasion, grinding and sliding on floors. Very high foot traffic	4.5 Kg/m <sup>2</sup>
LIGHT	Traffic with light duty wheels, light load pulling, sliding, occasional abrasion, automobile traffic, heavy foot traffic.	2.5 Kg/m <sup>2</sup>

## DIRECTIONS FOR USAGE

While making the base concrete, all standard codes of BS, DIN, IS relevant to production and placing of concrete have to be kept in mind. It should be at least M15-M20 Grade concrete with minimum cement content of 300 Kg/mm<sup>2</sup> and W/C ratio being restricted to a minimum of 0.55. Instruction should be strictly followed while applying **Dr. S. Bond HARDTOP** as it will significantly affects the performance of the floor.

- a) **Dr. S.BOND HARDTOP** has to be applied in the specified quantity depending upon the type of traffic it should bear.
- b) **Dr. S. BOND HARDTOP** has to be applied at the proper time. Application should begin when the base concrete has reached a stage at which light foot traffic leaves an impression of about 2mm. When this is ensured, 1/2 to 2/3<sup>rd</sup> part of the **HARDTOP** to be applied should be sprinkled over the entire area. Wait for 2 minutes for the **HARDTOP** to absorb the available water from the surface. **HARDTOP** is floated on the surface using a wooden floats or power trowel. **HARDTOP** particles should build on the substrate and not go deep into it. The remaining **HARDTOP** is sprinkled and spread uniformly on the surface and floated as before. Finally, a little more floating, surface is neatly finished.
- c) If the application is performed on a surface having excess water or bleeding water **HARDTOP** particles will sink into the concrete or will absorb lot of water. This results in a low abrasion resistant floor topping. When **HARDTOP** is applied when there is sufficient water on concrete substrate, it results in improper hydration of cement particles. This causes crazing and other defects in the floor topping.
- d) In case of Bay edges which have to bear heavy traffic and abrasion, special care should be taken. 10 cm - 20 cm wide strips along these edges are to be sprinkled with **HARDTOP** and trowelled **HARDTOP** which is cementitious, has to be cured with a standard curing method.

## PRECAUTIONS

**Dr.S.BOND HARDTOP** is non-toxic, non-flammable. Use gloves while using **Dr.S.BOND HARDTOP**. When it comes in contact with eyes wash with plenty of water and take medical advice.

## SUPPLY

**Dr.S.BOND HARDTOP** is supplied in 25Kg bags.

## TECHNICAL SUPPORT

Technical information and guidance regarding **Dr.S.BOND HARDTOP** range of admixtures, repairs and bonding, water proofing systems, epoxy industrial flooring systems, etc., will be available from the technical services department, **M/S.SOHIT CONSTRUCTION CHEMICALS PVT. LTD.**, **Dr.S.BOND HARDTOP** products undergo high standard quality checks and every reasonable precaution is taken in the manufacture of all products, **Dr.S.BOND** continuously strive to ensure the products, recommendations, specifications & information given is reliable, correct and accurate. No specific guarantee can be assured as product performance depends not only on quality but also on many other factors which are not under our control. The customer should make his own trials to determine the compatibility of the product for his own purpose. All products are sold subject to our standard terms and conditions of sale.

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