

TECHNICAL DATA

TOUFF HARD

MINERAL BASED DRY SHAKE FLOOR HARDNER

Touff hard is a ready to use factory blended cementitious powder, which has been formulated to provide hard wearing surface when applied as a dry shake over freshly floated concrete. **Touff hard** contains specially selected aggregates with high abrasion and wear resistance along with cementitious binders, plasticizers and admixtures to provide a tough, durable floor which can be pigmented for a coloured finish.

USES:

Used for providing a highly wear resistant and anti-skid surface to newly laid concrete by the dry shake method. It finds its best use in indoor and outdoor applications such as warehouses, garages, factories, power stations, aircraft runways etc.

VANTAGES

Provides a denser and more durable surface than concrete itself.

Reduces dusting and resists oil and grease penetration which makes it easy to clean

Factory mixed and ready to use mixture increasing ease of application

Ideal for interior and exterior use.

Available in a range of colours.

Forms a monolithic bond to concrete.

APPLICATION SPECIFICATION CLAUSES:

Concrete should be treated with Touff hard a cementitious dry shake floor hardener containing non metallic, rust free aggregates spread at a rate of 3.5 kg/m² applies in accordance with manufacturer's instructions.

TECHNICAL CHARACTERISTICS:

Colour	: Grey
Density (mixed)	: 1.7 g/cc
Compressive strength	: >80 N/mm ²
Hardness	: 7
Abrasion resistance (BS 8204 classification)	
AR requires	: 3kg/m ²
SPECIAL requires	: 5kg/m ²
Minimum abrasion resistance	

achieved : 220% normal concrete

Standard : BS 1881 part 116, ASTM C 779 - 89

BASE CONCRETE REQUIREMENT:

Minimum compressive strength	.. 30N/mm ²
Minimum cement content	.. 300kg/m ³
Minimum Slump	.. 75mm to 90mm
Maximum air content	.. 3%
Completely devoid of chloride admixtures	

and salt contaminated aggregates



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Surface Preparation:

Calculate total quantity of Touff hard to be used, divide and mark the area into suitable bays and set out the bags evenly around the perimeter of the application area. Make sure that the required wooden hand floats and power floats area on site and ready to use.

Placing Concrete:

With the least possible handling, deposit concrete between previously placed screed points. More concrete into place with square flipped shovel or other solid bladed tools. Vibrators when used should be inserted vertically and should not be used to move concrete. The concrete once placed is further leveled and consolidated with wooden bull floats or hand floats. Remove any bleed water, which is present on the surface.

APPLYING THE FIRST SHAKE:

Transfer Touff hard power from the bags to pails of a size convenient for handling by the person walking on the freshly floated surface. When the concrete has set enough to leave a 3 – 6 mm foot print on the surface, start broadcasting $2/3^{\text{rd}}$ of the quantity evenly over the surface. As soon as the material darkens, start working on the surface with wooden float. Make sure that the surface is not over worked which results in excessive moisture surfacing.

APPLYING THE SECOND SHAKE:

As the floating proceeds, immediately follow the process by broadcasting at right angles to the initial broadcast the balance $1/3^{\text{rd}}$ at the quality set apart. Once the material darkens, float the surface with a power float bringing the moisture completely through.

In the case of heavy duty application, the first broadcast will be done only with the half quantity. This is followed by two separate broadcast each with $1/4^{\text{th}}$ quantity and the right angle to each other.

CAUTION

Timing of the broadcast is very important in the application of Touffguard

CURING

Proper curing of the surface is very important for the achievement of the required properties of the finished floor.

PACKING

25Kg bags.

HEALTH AND SAFETY.

Avoid direct contact with eyes and skin. Kindly refer the MSDS for further details.

