



# ULTRA HARDFLOOR

## Natural Aggregate, Fresh Concrete Flooring

### Admixtures

### Surface Treatments

### Protective Coatings

### Concrete Repairs

### Industrial Flooring

### Grouts & Anchors,

### Adhesives,

### Water Proofing

### Sealants

**Ultra Hardfloor** is a crushed and graded igneous aggregate, recommended for use wherever a hard, long wearing, heavy duty, non-slip floor is required. Its wear resistant qualities often exceed those of stone, gravel and various other selected materials often used in the construction of heavy duty floors. It is graded to produce an optimum combination of sharp irregular particles, ranging from large to small, which mesh together and form an excellent non-slip surface.

#### PRIMARY APPLICATIONS

- Food processing plants
- Textile Industries
- Dairies
- Breweries
- Wherever concrete surfaces are exposed to water
- Stairways
- Platforms
- Ramps carrying pedestrian traffic in public and private buildings
- Parking garage ramps where additional traction is necessary for entering and leaving vehicles

#### FEATURES / BENEFITS

- Provides permanent safety in pedestrian areas such as Sidewalks, ramps and platforms
- Non-rusting
- Most economical non-slip protection Improve abrasion resistance by 225%.

#### TECHNICAL INFORMATION Typical Engineering Data

<b>Specific Gravity</b> .....	2.87
<b>Moh Hardness</b> .....	7
<b>Absorption</b> -.....	0.19%
<b>Compressive strength</b> -.....	70 N/mm <sup>2</sup> (In 28 days)
<b>Abrasion resistance</b> -----	225%

#### Appearance

**Ultra Hardfloor** is a crushed and graded igneous aggregate as packaged. The final finish can be any texture normally achievable with concrete and should be specified by the owner. Ultra Hardfloor is typically given a steel or wood trowel finish.

#### DIRECTIONS FOR USE

**Placing Procedures-** Place concrete between screed points and strike off to level of finished floor.

Use float or Darby to level surface. To remove excess water, drag surface with burlap or a rubber hose.

After the concrete has stiffened somewhat and where light foot traffic leaves an imprint about 3-6 mm, open the surface by floating with hand wood or power float.

For best results and uniform thickness, Ultra Hardfloor should be applied in two applications using approximately two-thirds of the total amount for the first application.

Allow the first application to remain un-worked on the surface until it has absorbed moisture. Then float with hand or power float. Immediately after, apply the second application. Float the second application in the same manner as outlined above, working the edges, then cross floating for a level surface. Trowel until the desired surface finish is achieved.

#### PACKAGING

Ultra Hardfloor is packaged in 50 lb (20 kg) bags with polyethylene liner for moisture

protection. Material is shipped 64 bags per pallet.

#### COVERAGE

Ultra Hardfloor is generally used at a rate of **5 kg /m<sup>2</sup>**

#### Curing agent:

**Ultra Acrylic Sealer is generally used at a rate of 5-9 m<sup>2</sup>/liter. Ultra Tufcoat 90 can be used at a rate of 8 m<sup>2</sup>/kg for decorative as well as chemical resistance.**

#### Application of Ultra Hardfloor over air-entrained concrete.

Use of Ultra Hardfloor with air-entrained concrete requires special considerations for the contractor:

1. Air-entrainment delays the timing when bleed water may eventually come to the surface of the concrete.
2. In general, air-entrainment reduces the amount of bleed water coming to the surface after concrete placement.
3. Finally, air-entrained concrete has a tendency to blister when applying a tight, steel & trowel finish to the surface of the slab.

Because of the above conditions, normal application procedures of Ultra Hardfloor must be modified when using this product over air-entrained concrete.

After the placement, the concrete must be allowed to stiffen sufficiently to support the weight of a worker. The indentation left by his footprint should not exceed 1/4 - 3/8". Any standing water must be removed. Applications of Ultra Hardfloor earlier than this may result in trapped bleed water.



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Apply the Ultra Hardfloor and float the material into the surface. Care must be taken to not blister the surface if the slab will be trowel finished. Trowel the surface with magnesium or wood floats to the desired texture.

**Curing & Sealing**-The following products are recommended for curing and sealing Ultra Hardfloor. Each has its own advantages and unique properties. Consult the individual technical data sheet for each curing and sealing product or contact your Ultra Chemical representative for a recommendation regarding your specific project.

If the floor surface will later be frequently exposed to solvents, hydraulic fluid, etc. treat the floor with Ultra Fairing Coat.

### **CLEAN-UP**

Clean tools and equipment with water before the material hardens.

**Shelf life** is 1 year in original, unopened package.

### **Storage:**

Avoid to place direct to sun light and always store in shady areas.

### **ISO Certification:**

Our production facility at Pakistan is  
ISO 9001:2008  
ISO 14001:2004  
by BUREAU VERITAS  
and UKAS Management

**WARRANTY:** The Ultra Chemicals LLC. ("Ultra") solely and expressly warrants that its products shall be free from defects in materials and workmanship for 12 months from the date of purchase. Unless authorized in writing by an officer of Ultra, no other representations or statements made by Ultra or its representatives, in writing or orally, shall alter this warranty. **ULTRA MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME.** If any Ultra product fails to conform to this warranty, Ultra will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Ultra does not authorize anyone on its behalf to make any written or oral statements which in any way alter Ultra's installation information or instructions in its product literature or on its packaging labels. Any installation of Ultra products which fails to conform to such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Ultra's products for the Buyer's intended purposes.  
Registered Company



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