



VURA Dur is a ready to use, dry shake, non metallic preblended floor hardener for concrete based on natural mineral aggregates and special additives. **VURA DUR** provides a hard wearing and abrasion resistant topping for monolithic floors. It forms a smooth, dense, anti skid, long lasting and maintenance free floor when sprinkled and trowelled into fresh wet concrete floors. The product is compliant with the ASTM C-109 & IS 1237 standards.

1. SUBSTRATE QUALITY

- 1.1 The concrete deliveries must be of consistent quality.
- 1.2 A concrete slump in the range 75 to 110 mm will normally give best results.
- 1.3 The slab must be of good quality concrete with a minimum water/cement ratio consistent with the production of a fully compacted slab.
- 1.4 The compressive strength shall be a minimum of 20-25 N/mm².
- 1.5 Air Entrained Concrete is not a suitable substrate for the application of dry shake hardeners.
- 1.6 Any bleed water still present shall be removed or it should be evaporated before sprinkling **VURA Dur**.

2. APPLICATION

- 2.1 **VURA Dur** may only be used by experienced professionals.
- 2.2 Application time for dryshake products is influenced by every variable which affects the placing of concrete, and can therefore vary substantially, depending on the prevailing conditions.
- 2.3 Dependent on the conditions, remove the surface bleed water or allow it to evaporate.
- 2.4 Sprinkle **VURA Dur** onto the screed concrete evenly in 2 stages.
- 2.5 In first stage, two third ie. 60-70% of the dry mix should be sprinkled evenly by hand or scoop horizontally and it is to be floated by wooden float or mechanically floating.
- 2.6 In second stage, thereafter immediately the remaining 30-40% dry mix should be sprinkled. Care must be taken to apply the product without creating ripples etc. in the concrete surface.
- 2.7 The first application must be worked into the slab immediately followed by application of the second stage quantity of **VURA Dur**.
- 2.8 While floating, surface should not be over worked.
- 2.9 Final finishing, closing pores and removing undulations can be achieved either by hand or powered trowel.
- 2.10 For mechanical application with automatic spreader and laser screed, the spreading can start almost immediately after the concrete has been levelled to allow for the hydration of the dry shake.
- 2.11 Compaction with the trowel can start as soon as the weight of the power trowel is supported by the concrete.
- 2.12 For manual application, the dry shake must be spread once the concrete becomes firm enough to take foot traffic.



ONE UNIT = ONE TREE

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METHOD STATEMENT

3. PLEASE NOTE

- 3.1 Do not add water to the surface where the dry shake has been applied.
- 3.2 **VURA Dur** results in the slab surface becoming stiff more quickly than usual.
- 3.3 Proper attention should be paid to edges and corners to ensure full compaction
- 3.4 Careful trimming must take place along the edges where adjoining slabs are to be poured.

4. CURING

- 4.1 Cure **VURA Dur** immediately after finishing using clean water.
- 4.2 Curing should be done for at least 7 days.
- 4.3 The surface need to be protected from rapid moisture loss after final levelling.
- 4.4 For chemical curing, please consult VURA Technical Service team.

REQUIRED EQUIPMENT

- Scoop
- Mechanical Power floater / trowel
- Wooden flat
- Automatic spreader (for mechanical application)
- Laser screed (for mechanical application)

APPROVAL AND VARIATIONS

This method statement is offered by Vura Bau-Chemie LLP as a 'standard proposal' for the application of **VURA Dur**. **VURA Dur** may be used by experienced professionals. It remains the responsibility of the Engineer to determine the correct method for any given application. Where alternative methods are to be used, these must be submitted to Vura Bau-Chemie LLP for approval, in writing, prior to commencement of any work. Vura Bau-Chemie LLP will not accept responsibility or liability for variations to the above method statement under any other condition.

- TECHNICAL DEPARTMENT