



VURA®

Time To Build Better

INDIA | UAE | ESTONIA

VURA Dur™

Ready To Use Non-Metallic Floor Hardener

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.

CHARACTERISTICS

- Single component / Ready to use
- Not metallic & Rust free
- High wear resistance
- High abrasion resistant
- High impact resistance
- Cost effective surface hardener
- Makes floor dust proof
- Easy to clean
- Increase resistance to oils and grease
- Quality assured - factory blending

SCOPE OF USE

- Industrial and Commercial Warehouses
- Logistic Parks
- Factories
- Shopping Malls, Halls, Corridors
- Restaurants
- Exhibition Halls, Stadiums, Railway Platforms
- Museums & Airport Hangars
- Basement and Parking lots
- Garages
- Trucking lanes & Container Terminals etc.
- Service stations
- Public areas

SUITABLE SUBSTRATE

- Residential / commercial Areas
- Wet concrete floors
- Cementitious screeds

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

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



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APPLICATION

VURA Dur may only be used by experienced professionals.

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.

Dependent on the conditions, remove the surface bleed water or allow it to evaporate. Sprinkle **VURA Dur** onto the screed concrete evenly in 2 stages, 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. In second stage, therefater imediately 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. The first application must be worked into the slab immediately followed by application of the second stage quantity of **VURA Dur**.

While floating, surface should not be over worked.

Final finishing, closing pores and removing undulations can be achieved either by hand or powered trowel.

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 dryshake. Compaction with the trowel can start as soon as the weight of the power trowels is supported by the concrete.

For manual application, the dry shake must be spread once the concrete becomes firm enough to take foot traffic.

CURING

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

PLEASE NOTE

- Do not add water to the surface where the dry shake has been applied.
- **VURA Dur** results in the slab surface becoming stiff more quickly than usual.
- Proper attention should be paid to edges and corners to ensure full compaction
- Careful trimming must take place along the edges where adjoining slabs are to be poured.
- The time between casting of concrete and **VURA Dur** broadcasting will be depend upon the ambient temperature.

PRODUCT SAFETY

Product contains cement, strongly alkaline reaction with moisture, so protect skin and eyes. After contact wash immediately with plenty of water. After eye contact also seek medical advice. It is recommended to use protective gloves and goggles. For further and complete information about the safe use of our product, please refer to the latest version of our Material Safety Data Sheet.



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GENERAL DATA

1. Appearance : Cementitious Lumps Free Grey Powder
2. Pack size : 40 Kg Bag
3. Color : Grey

TECHNICAL DATA (at 23°C & 50% RH)

1. Bulk Density : 1.60 g/ml
2. Compressive Strength : > 50.00 N/mm² @ 28 days
3. Surface Hardness : 7-8 (Moh's Scale)
4. Ready To Use : Foot Traffic - 72 Hours
Fully Traffic - 7 Days
5. Ambient Air Temperature : +5°C min. / +35°C max.
6. Relative Air Humidity : 30% min. to 95% max.
7. Consumption :

Application	Consumption
Light Duty	3.0 to 3.5 kg/m ²
Medium Duty	4.5 to 5.0 kg/m ²
Heavy Duty	6.0 to 7.5 kg/m ²
11. Shelf life : Until 15 months since the date of Stored in undamaged dry conditions and original packaging.

The product is compliant with the ASTM C-109 & IS 1237 standards.

LIMITATIONS

- The application of dry shake powder must not be carried out in strong wind or in dry conditions.
- After application, do not expose such concrete surface to water and protect from rain or contaminants.
- Variations in concrete characteristics such as water content and cement may lead to slight color variations.
- Correct timing and troweling techniques are essential to ensure an even application of **Vura Dur**.

OTHER INFORMATION

Should you need support or advice, please consult our advisory service for architects and craftsman on the contact information you will find on the local VURA website.

Apart from the information given here it is also important to observe the relevant guidelines, regulations and common standards of various organizations and trade associations. The afore mentioned characteristics are based on practical experience and applied testing. Confirmed properties and possible uses which go beyond those listed in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23° C and 50 % relative air humidity unless specified otherwise. Please note that under other climatic conditions, hardening can be accelerated or delayed and that the product itself is subject to local conditions.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of willful misconduct or gross negligence on our part or unless there is a case of personal injury or death or a case of liability under the Product Liability Act.

This technical data sheet supersedes all previous editions relevant to this product. Please be aware that this Technical Data Sheet only relates to a product manufactured in the specific relevant production site.



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