



Voga Hard-Top

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VOGEL SYSTEMS Technical data sheet

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Product: **Voga Hard-Top**

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1. Identification

Product identifier

Voga Hard-Top

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Product for construction chemicals Recommended use: for industrial and professional users



Details of the supplier of the safety data sheet

E-mail address: info@vogel-systems.de

Emergency telephone number

International emergency number

Surface hardening compound for fresh concrete floors

DESCRIPTION

Voga Hard-Top is a pre-blended, ready to use and dry shake formulation for hardening freshly placed horizontal concrete slabs and toppings. It produces a hard, dense, wear resistant surface which resists corrosion and absorption of grease, oils, alkalis and most chemicals. Typical areas of use include concrete floors in garages, steel mills, generating plants, loading platforms and wherever is heavy-duty wear resistant floor finish is required.

APPLICATION FIELDS

Voga Hard-Top cures monolithically to provide a dense non porous surface which is extremely hard wearing and abrasion resistant. It is available in natural (concrete Grey) color as standard. special Colors, including Brick Red, Green and off white can be produced on request For large orders.

ADVANTAGES

1. Supplied ready to use - no additives required.
2. Provides a hard, abrasion resistant surface.
3. Forms monolithic bond with fresh concrete base.
4. Hard, dense surface resistant to oils and grease.
5. Can be coated with different types of epoxy or polyurethane floor systems available in a range of colors to improve working environment.
6. Non-metallic aggregate - will not rust when wet

USES

- Ideal for use in warehouse, factories, car parks, driving and loading ramps, garages, mechanical / power rooms, wet rooms and outdoor surface of all kinds, etc.
- Easy to apply and even easier to maintain.
- High abrasion and impact resistance.
- Suitable for constantly wet areas; Non-skid and Nonslip.
- Dust-proof.
- Resistant to gas, oil, mineral, solvents and other chemicals.

APPLICATION INSTRUCTIONS

• Surface Preparation

- Concrete for single course monolithic floors should be capable of achieving a 28-day compressive strength of 20 Mpa (30 Mpa for heavy duty traffic areas) with a slump between 75mm and 100mm. Concrete should not contain calcium chloride.
- Place concrete and consolidate with vibrators if necessary. Strike off concrete level. Further level and consolidate using a wooden bull float. Complete this operation before any bleed water appears. If there is free-bleed water on the surface, remove it just prior to the floating. The base concrete should then be allowed to stiffen sufficiently to bear the weight of a finisher before proceeding to the next stage.

• Application

- **Voga Hard-Top** is applied in two stages.
- 1. The first application is broadcast at an even rate of 2-3 kg/m² onto the concrete surface. When the material becomes uniformly dark by the absorption of moisture from the base concrete, this first application can be floated. Wooden floats or, on large areas, a power float, may be used. It is important, however, that the surface is not overworked.
- 2. Immediately after floating, the remaining 1-2 kg/m² of **Voga Hard-Top** is applied evenly over the surface at right angles to the first. Again, when moisture has been absorbed the surface can be floated in the same way as before.
- Final finishing of the floor using the blades of a power float can be carried out when the floor has stiffened sufficiently so that damage will not be caused.

• Curing

- Proper curing of concrete floors treated with **Voga Hard-Top** is essential to the physical properties of the finished floor, however, if the floor is to receive further surface treatments please consult your local Fosroc office for advise on recommended curing methods.
- For indoor applications where curing conditions are less arduous and breakdown of curing membrane is slower alternative approved methods of curing such as polythene sheets taped at the edges is acceptable.

• Cleaning

- All equipment should be washed with clean water immediately after use and before the material has hardened.

TECHNICAL DATA

Product characteristics	
Composition	Blend of high grade mineral aggregates mixed with cement, admixtures and pigments.
Density	1.4 kg/l.
Compressive strength	70 N/mm ²
Abrasion Resistance	> 370% Compared to C25 concrete
Tensile strength	> 1.6 N/mm ²
Water Absorption	4.8%
Reaction to fire	non-flammable.

CONSUMPTION

Estimated consumption **Voga Hard-Top** is 3 Kg/m² for light traffic and 5 Kg/m² for medium traffic to heavy traffic.

PACKING

25 Kg bag

STORAGE

Twelve months in its unopened original packaging. Store in a cool, dry and covered place, protected from moisture , frost and direct sunlight,with temperatures between 5 °C and 30 °C.

SAFETY AND HEALTH

Voga Hard-Top is a non-toxic product but direct contact with skin and eyes must be avoided , Use rubber gloves and safety goggles when handling, mixing and applying the product .

- If ingested seek medical advice.