

VARATOP NAG

SILICA BASED SHAKE-ON FLOOR HARDENER

DESCRIPTION

VARATOP NAG is a cementitious premixed shake-on floor hardener based on specially selected and graded silica aggregate and is ready to use. It is evenly sprinkled on fresh concrete and floated to a smooth finish.

It provides increased wear resistance to surface.

USES

VARATOP NAG is used to produce abrasion resistant monolithic floor topping for surfacing concrete in:

- Lobbies
- Restaurants
- Showroom
- Factory and warehouse floors
- Commercial and Industrial facilities
- Carparks, etc.

ADVANTAGES

- Increase wear : abrasion and impact resistance.
- Resistance to mild chemicals such as agricultural chemicals, fertilizers, oil and greases provided it is cured and specially surface sealed with a product recommended by our Technical Dept.
- Minimise surface dusting.
- Very high compressive and flexural strength.
- Economical and easy to layover the freshly placed floor concrete.
- Non-toxic, chloride free, safe to use.

SPECIAL FEATURE

Can be cured and overcoated with **VARACURE P**.

COLOURS

Natural colour, light grey, charcoal, green, buff and tile red.

VARATOP NAG is applied at a rate of 5 to 7 kg/m² onto freshly placed, fully compacted and screeded good quality concrete.

VARATOP NAG should not be applied to concrete containing chlorides, high alumina cement or air contents in excess of 6%.

The bleed water on the concrete surface should be removed if necessary and then sprinkle 3 to 5 kg/m² of the material onto the surface of the concrete and leave for a few minutes to allow the powder to absorb moisture from the surface of the concrete. When the powder appears damp or wet, it should be worked into the surface with wood float or power-trowel. The surface should not be trowelled if the concrete is still wet or plastic.

Immediately the first layer is trowelled in, the remaining 2kg/m² of the powder is sprinkled onto the surface. Once again, when the powder becomes damp it should be well worked into the surface using the power trowel. Immediately following on from this finishing operation, a curing membrane should be applied to prevent rapid moisture loss from the surface.

TYPICAL PROPERTIES

Shrinkage : **VARATOP NAG** has extremely low shrinkage.

Abrasion : Extremely high abrasion resistance.

Chemical Resistance : Consult our Technical Dept.

Compressive strength : At water contents obtained in practical applications **VARATOP NAG** will achieve a very high compressive strength. **VARATOP NAG** when tested at a water powder ratio of 0.10 typically yields the following values:

Typical Values :

Age (days)	Compressive strength (N/mm ²)
1	40
7	70
28	85

PACKAGING & YIELD

Packaging : VARATOP NAG is packed in 25 kg bags.

Yield : 25 kg VARATOP NAG will treat 3.5 to 5m² concrete for heavy to light duty flooring.

PRECAUTIONS

- **Cleaning** : All equipment must be cleaned with water immediately after use. Mixes containing this product must not be emptied into drainage systems.
- **Protection** : All works must be protected from rain, frost until fully hardened.
- **Storage** : Shelf life 12 months when stored in dry conditions at moderate temperature and humidity.

PERFORMANCE STANDARDS

BS - 882 1983 (Aggregates from natural sources for concrete).

HEALTH AND SAFETY

VARATOP NAG is non-toxic but is mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with clean water. In the event of prolonged irritation, seek medical advice.