

## TECHNICAL DATA SHEET OF THE PRODUCT

# NOMEA FLOOR NF 400

Cement dry shake for industrial floors – extreme heavy duty

### Description of the Product

**NOMEA FLOOR NF 400** is a filling mixture based on special cements, abrasion resistant filling agent based on metallic abrasives, micro filling agents and special chemical additives. It is supplied as a ready-mix dry mixture for direct use in a so-called “dry to wet” system.

The product is intended for the surface finishing of fresh concrete floors for extreme heavy duty. It improves the physical-mechanical parameters of industrial floors. Complies with requirements of EN 13813-CT-C80-F10-AR0,5.

### Area of Use

The product is suitable for using :

- ✓ on indoor and outdoor concrete surfaces, industrial floors (warehouses, factories, production buildings, shopping centers, distribution centers, power plants,...)
- ✓ for extreme heavy duty

### Resulting Characteristics after the Treatment – Benefits

- ✓ easy cleaning and maintenance.
- ✓ high resistance of the floor to extreme heavy operating duty.
- ✓ long floor life.
- ✓ increased abrasion resistance.
- ✓ excellent shock resistance.
- ✓ very low absorptivity.
- ✓ reduction of dust and surface slipperiness.
- ✓ resistance to freezing cycles and defrosting agents.
- ✓ non-flammability.

## Technical Data

### Parameters measured by accredited laboratory:

Parameter	Value
Dosage	5-7 kg/m <sup>2</sup>
Granularity	max. 2 mm
Compression strength after 28 days	≥ 70 MPa
Bending tension strength after 28 days	≥ 13 MPa
Abrasion resistance according to BCA method	0,016 mm

\* All technical data stated in this technical data sheet are based on laboratory tests. Due to circumstances beyond our control, the actual measured values may be different.

## Application Procedure

The dry shake is applied in one technological step together with laying of the concrete slab which achieves a monolithic bonding of the respective layers. Before applying **NOMEA FLOOR NF 400** it is necessary to remove excess water from the concrete surface, the surface should be walkable (the footprint must not remain deeper than 3-5 mm on the concrete slab). There must be no depressions, puddles or dry surfaces on the concrete surface. Laying the mixture can be applied only at the temperature of the substrate and the air in the range of + 5 ° C min. up to + 35 ° C max. The mixture can be applied only at the temperature of the substrate and the air in the range of + 5 ° C min. up to + 35 ° C max. Protect from drafts and direct sunlight during application. Special attention must be paid to the even application of the dry shake. Uneven application will cause the surface to curl during polishing and the uneven appearance of the resulting surface. Application of the dry shake onto the surface of the solidified concrete mixture is done using a spreading trolley or using the "laser screed" technology, with a dosage of 5-7 kg/m<sup>2</sup>. Processing and final finishing is done using machine scrapers with rotating adapters / plates and blades / until a glossy surface is achieved.

## Treating of Surface

The freshly finished surface must be immediately treated and sealed with a protective and hardening coating (**NOMEA HARD ONE**, or during application - **NOMEA CONHARD**) to prevent excessive evaporation of water from the concrete slab and to achieve high resistance of the floor. The protective paint can be applied by roller or spraying in quantities depending on the product used above.

## Cutting and Filling Expansion Gaps

Cutting of expansion gaps must be done within 24 hours from completion of concreting works; in case of high or low temperatures these conditions must be taken into account. We recommend using polyurethane mastic with higher hardness and sufficient ductility for filing cut expansion gaps.

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## Use, Cleaning and Maintenance

The floor can be used after the complete curing of the concrete, which takes, under ideal conditions:

Walkable ..... after 24 hours.  
Light operation ..... after 7 days.  
Full planned operation ..... after 28 days.

The stated values depend on the ambient conditions, especially temperature and relative humidity.

To ensure optimal physical and mechanical properties, maximum service life and quality of the floor, it is necessary to ensure regular maintenance, vacuuming of dirt and cleaning of the floor with suitable cleaning machines with suitable detergents without any negative effects on the bonding agent of the floor.

## Packaging and Storage

**Packaging :** 25 kg paper bags with a PE membrane insert.  
Stacked on wooden pallets, 1 pallet = 1200 kg of product.

**Storage :** Store in temperatures between 0°C and 40°C.  
Protect against frost and moisture.

**Durability :** Subject to observance of the storage conditions, the minimum usability period of the product is 12 months from the date of production provided it is packaged in the original packaging.  
The date of productions is marked on the packaging.

## Caution

The product contains cement. Cement reacts with water to form an alkalic suspension (pH over 10). It is necessary to use protective equipment (clothing, gloves, goggles) during work. Protect eyes and prevent contact with skin. During handling the dry mixture there is a risk of inhaling dust particles, therefore, it is necessary to use a respirator. In case of contact with eyes wash them with a stream of fresh water and seek medical attention.

## Legal Amendment

The information, especially instructions on processing and applying our products, are based on our knowledge of development and application of chemical products and many years of application experience under standardized conditions and proper storage and use. With regard to different circumstances when processing, other external influences and different characters and properties of the surface bases, the methodology based on the above-mentioned information, or any other written or oral recommendations for that matter, does not necessarily guarantee successful results of the work. The client or the executor shall always try themselves whether the products are suitable for the planned purpose of the application.