

NAGAFLOOR PU-4K

TROWEL APPLIED, 6MM - 12MM ,

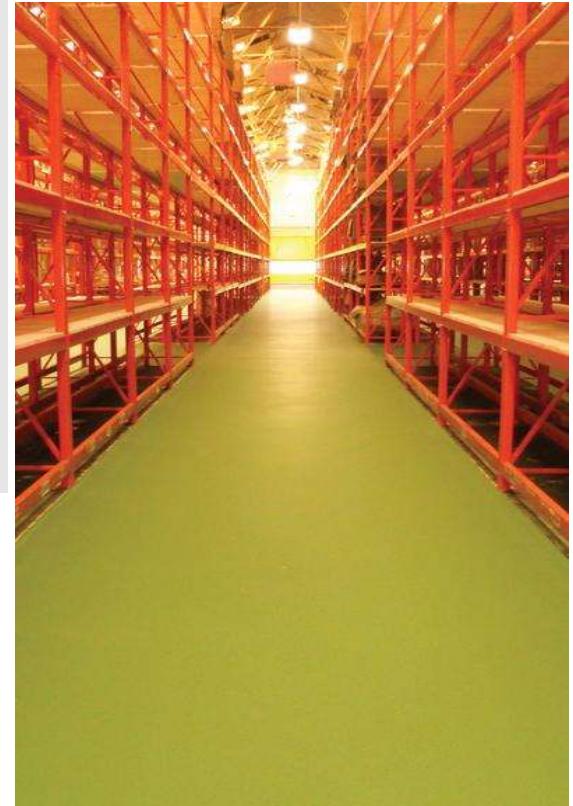
Four-Component Polyurethane-Concrete Heavy Duty Flooring System

DESCRIPTION: NAGAFLOOR® PU-4K is a solvent-free, heavy-duty polyurethane-concrete flooring system based on polymeric MDI, specially graded aggregates and cement. The system is designed for high mechanical performance and long-term durability in aggressive industrial environments.

The material provides excellent resistance to impact, thermal shock, hot water, steam and a wide range of chemicals, while delivering a dense, anti-slip matt surface finish.

USES:

- ✓ Heavy-duty industrial production areas
- ✓ Pharmaceutical plants & healthcare facilities
- ✓ Pulp and paper mills
- ✓ Waste-water treatment facilities
- ✓ Food processing plants and industrial kitchens



PRODUCT ADVANTAGE

- ✓ Solvent-free, low odour system
- ✓ Excellent mechanical strength and abrasion resistance
- ✓ High resistance to thermal shock, hot water and steam
- ✓ Very good chemical resistance
- ✓ Fast curing and rapid return to service
- ✓ Good workability and flow characteristics
- ✓ Dense, matt and anti-slip surface finish

NAGAFLOOR PU-4K

FOR A BETTER LIFE

PROPERTIES:

Composition	Water-based polyurethane cement hybrid
Adhesion to concrete	Concrete failure
Finish	Matt
Compressive strength	> 50 N/mm ²
Potlife	15 mins at 28 °C
Hardness (shore D)	75D (24h) 84D (7days)
Density	2.2 (kg/liter)
Service Temperature 6mm	-25°C to +100°C max
Service Temperature 9mm	-30°C to +120°C max
Service Temperature 12mm	-40°C to +140°C max
Ideal application temperature range, °C	15 - 30
CURING & RETURN TO SERVICE (At +25°C)	Light foot traffic: approx. 24 hours Light mechanical traffic: approx. 48 hours Full mechanical and chemical service: approx. 7 days

APPLICATION INSTRUCTION:



Surface requirements

Concrete or polymer-modified screed ; Minimum compressive strength: 25 N/mm²

Minimum pull-off strength: 1.5 N/mm² ; Maximum moisture content: < 5%

Application Temperature: Substrate and ambient temperature: +15°C to +30°C

SUBSTRATE PREPARATION

- Substrate must be structurally sound, clean and dry.
- Remove oil, grease, laitance, curing compounds, coatings and contaminants.
- Repair surface defects and irregularities prior to application.
- Mechanical surface preparation (grinding or shot blasting) is recommended

Priming/ Scratch coating

Use NAGAFLOOR® PU-3K as a primer/scratch coat, thickness approx. 1mm.

- Apply evenly using a steel trowel
- Allow to cure for 12–24 hours at +25°C before applying the main topping

If the scratch coat has cured for more than 48 hours, the surface must be thoroughly abraded and a fresh scratch coat applied.

If pin-holing is observed, corrective measures must be taken prior to application of the topping layer.

Application of NAGAFLOOR PU-4K

Nagafloor PU-4K is a four-component product.

Mixing:

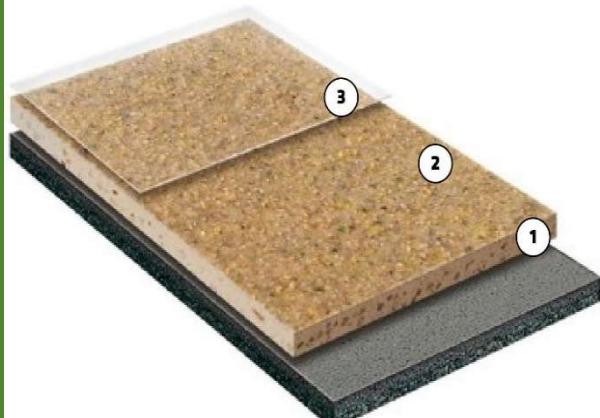
1. Shake Part A and pour into a clean mixing container
2. Add Part B and mix for approx. 10 seconds until uniform
3. Add Part C and Part D powder
4. Mix for approx. 2 minutes until a homogeneous mortar is obtained
5. Remove residual material from previous mixes before preparing the next batch

*For full mortar mixing, use a high-torque mixer at approx. 700–750 rpm.

Applying: Spread the mixed PU-concrete mortar to the specified thickness (6–12 mm) using a steel trowel and compact thoroughly to achieve full consolidation. De-aerate immediately using a spiked roller. Solvents such as xylene must not be used, as this will adversely affect the performance and durability of the PU-concrete system.

The finished floor should be protected from other trades using kraft paper or similar breathable material. Polythene should not be used. Protect the installed floor from damp, condensation and water for at least 4 days.

SUPPLIER: Nagafloor PU-4K : 32.5 kg/set full 4 components



Estimating:

1- Primer/scratch coat Nagafloor PU-3k	~2kg/m2 @1mm
1- PU-4K Main Floor Nagafloor PU-4K	~13.2Kg/m2 @6mm
2- Clear Topcoat: (optional) NagaProtec Utop 2K	~0.2kg/m2 @0.1mm

Shelf Life: Nagafloor PU-4K have a shelf life of 6 months in the original, unopened packs.

The product components should be stored in a cool area (or warm area in the case of low ambient temperature).

HEALTH & SAFETY

- Shelf life: 6 months from date of manufacture
- Store in original, unopened packaging
- Store in dry conditions at moderate temperatures

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NAGA PRODUCT DATA SHEET

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Nagafloor® PU-4K