

# *NiviLock – NL 01*

## SELF-LEVELLING FLOWABLE FILLER

### Description:

- ✚ Species: polymer-modified, flowable fine mortar with increased strength for indoor floor coverings
- ✚ Application: self-leveling floor levelling compound (flow levelling compound) for levelling and smoothing screeds and horizontal concrete floors
- ✚ Composition: Portland cement, high-quality mineral aggregates, concrete admixtures
- ✚ Special properties: shrinkage compensated, very good adhesion properties, pumpable, flat and low-pore surface
- ✚ Type of packaging: paper sack 25 kg/55 pounds

### Technical specifications:

- ✚ Yield: approx. 1.7 kg dry mix results in 1 litre of mortar
- ✚ Pouring: approx. 1,4 kg / dm<sup>3</sup>
- ✚ Grain size: largest grain 0,7 mm/0.03 inches
- ✚ Mixing liquid: Water
- ✚ Liquid requirement: approx. 180 – 200 ml/kg
- ✚ Mixing time: at least 3 minutes in a compulsory mixer or beater
- ✚ Surface treatment: can be walked on and sanded off after 5 – 6 hours
- ✚ Processing time: approx. 60 minutes
- ✚ Layer thickness: 0.06 – max. 1.18 inches
- ✚ Compressing strength: measured on 40x40x160 mm/1.57x1.57x6.30 inches prisms
  - $\beta_{D\ 3d}$  > 20 MPa
  - $\beta_{D\ 7d}$  > 30 MPa
  - $\beta_{D28d}$  > 50 Mpa
- ✚ Flexural tensile str.:  $\beta_{BZ\ 28d}$  > 9 Mpa
- ✚ Adhesive tensile str.:  $\beta_{HZ\ 28d}$  > 3 Mpa
- ✚ E-modul: N.N.
- ✚ Flammability class: A – non-flammable
- ✚ Shelf life: 6 months in dry storage

## **Processing information:**

### **✚ Base preparation / NOT for ThermoDyn as base:**

The substrate must be firm, load-bearing and free of separating substances such as dust, oil, grease, standing water and the like. Minimum tensile strength > 1.5 MPa. Grind concrete surface and clean thoroughly - dust-free.

### **✚ Undercoat - primer / NOT for ThermoDyn as base:**

The application of an acrylic dispersion-based bonding bridge is recommended to achieve a pore-free and well adherent coating to the top layer.

### **✚ Mixing / with ThermoDyn:**

*Mix NiviLock tile filler with compulsory mixer or whisk for at least 3 min. to a flowable consistency, then deaerate and allow to mat for approx. 2 min.*

*Step 1: pore closure / 1 bag = 4.5 litres/1 gallon water / installation with rubber slider*

*Please ensure that the pores are closed evenly*

*Step 2: flatness compensation / 1 bag = 5.8 - 6.0 litres/1.27 – 1.32 gallons water / installation with spiked roller for venting and even distribution of the mass*

**Attention:** *Please measure the addition of water quite precisely and adjust accordingly if necessary. Otherwise, too much of the flow filler will harden in the pores in the first step if it is mixed too thinly.*

*In the second step, the liquid can be adapted to the application and requirements. Make sure that you do not use too much water.*

### **✚ Processing / with ThermoDyn:**

*For better distribution and ventilation, the use of a spiked roller is recommended (for thicker layers, use a buffing bar. For thin film thicknesses, use a foam roller.)*

### **✚ Processing / NOT for ThermoDyn:**


Mix NiviLock flow filler with compulsory mixer or whisk for at least 3 min. to a flowable consistency and let it mature for approx. 2 min.

Then use a trowel or smoothing trowel to apply the desired layer thickness over the entire surface.

**ATTENTION:** the subsequent addition of water for the reprocessing of striped mixtures is not permitted (prohibited)!

During processing and 24 hours thereafter, air and building temperature grooves between +8°C and +30°C/46.4 – 86°F must be maintained. The relative humidity should be < 75%. Higher material and air temperatures shorten the processing time, thus prolonging processing and drying time at lower temperatures.



-  In order to avoid installation damage, it must be strictly ensured that:
- ✓ the underfloor heating is switched off at least 1 day in advance
  - ✓ the correct mixing ratio of the material to be built in is maintained
  - ✓ there is no direct sunlight
  - ✓ it is a load-bearing surface
  - ✓ the curing is protected against drafts of air

For further information, please contact our staff or our works laboratory.

The information in this data sheet/information sheet represents general information based on our experience and tests under standard conditions at the time of going to press and does not take into account the specific application. The results may differ depending on the circumstances (especially substrate, processing and environmental conditions). The data is therefore non-binding and does not exempt the recipient from carrying out his own tests and trials. A derivation of compensation claims is not possible.

Subject to alterations 02/13

The latest version of the terms of sale and delivery for special building materials shall apply