



# TECHNICAL DATA SHEET

## NIVELTECH SELF-LEVELLING

### FAST-DRYING SCREED



#### PRODUCT DESCRIPTION

NIVELTECH is a self-levelling, self-smoothing, fast-drying screed composed of hydraulic cement and polymers, designed for restoration and resurfacing of interior concrete surfaces, such as storehouse floors and any floating or monolithic screed demanding fast drying and high resistance on short term.

#### TECHNICAL CHARACTERISTICS

- Once mixed with water, an extremely fluid, easy-to-apply grout is obtained, allowing to apply layers of 1/5" up to 2" (5 mm - 50 mm) thick.
- It sets in just 2 or 3 hours.
- When mixed, it must be applied straight away,
- Ready for foot traffic after just 3 hours.
- Compressive strength at 2900 psi (20 Mpa) after 24 hours, and at 4500 psi (31 Mpa) after 28 days.
- Available in grey colour only, in 50 lbs. (22.7 kg) bag.
- It has a shelf life of 6 to 12 months when stored in its original container and kept in a dry, cool place.
- The product can be pump-applied.
- NivelTech can used over heated floors
- Can be covered 12 hours after installation

#### RECOMMENDATIONS FOR SURFACES

- Can be used as sold on dry concrete surfaces in which the surface is saturated and superficially dry, without any curing agents present, as long as it is clean and free of any other substance such as paint, oil, wax and curing agents capable of hindering good adherence.
- Surfaces can be rough-finished by sand blasting, scarification or any other appropriate method. Surfaces must be free of any water before the application of the product.
- It is recommended to perform adherence tests over any part of the surface having been in contact with any material capable of contaminating it.
- The product must be applied over surfaces being at a temperature between 50oF (10oC) and 95 oF (35oC). This temperature must be kept for 72 hours after application.
- Certain porous concrete surfaces might require the application of a layer of latex primer.
- For a careful work, it is always recommended to perform small-scale bonding and compatibility tests before the beginning of the full-scale work.
- The patched surface must be covered with a floor covering.

#### USE INSTRUCTIONS

##### • Mixing

In a clean container, pour around 4/5 of the total amount of water necessary, and slowly add a bag of NivelTech to this water gently mixing at slow speed using a mixer unit. At this moment, add the remaining 1/5 of water until obtaining an homogeneous, lump-free mixture. To avoid trapping any air inside the mixture, do not rise or descend the mixer unit during this operation.

##### • Application

Program a working crew big enough to work continuously in order to avoid construction joints and air trapping. Mix one bag at the time and pour it straight away when ready. Leave it to extend itself (self-levelling). Using a scraper specially for room corners. For big surfaces, application can be done using a traditional grout pump. (Consult Sable Marco's technical service for additional recommendations). Right after use, all tools must be cleaned up while the product is still fresh.

##### • Curing

No conventional curing agent (water, sealant, etc.) must be used to cure this product. The product dries after about 2 and it must be protected from excessive heat and wind during the first 4 hours. Avoid light foot traffic during the first 2 or 3 hours. If room temperature is low (about 50oF), this delay can stretch up to 5 hours.

##### • Precautions

Hands and skin must be washed after contact with the product. Cement and silica contained in this product can cause skin and eye irritation. Consult the material safety data sheet (MSDS) for further first-aid measures.

#### PACKAGING

22,7 kg (50 lb). per bag. 56 bags per pallet.

#### WARRANTY

The materials used in making this product are of the highest quality under strict production control. Sable Marco has no control over the preparation and the application of the products, and therefore, cannot guarantee the end result. Sable Marco's warranty is limited to the replacement or reimbursement of defective products. Claims must be submitted to Sable Marco Inc., 30 days from the date the problem was discovered with a proof of purchase..

#### TECHNICAL INFORMATION

For further information in the installation of this product, please contact :

Sable Marco Inc.  
26 Chemin de la Pêche  
Pont-Rouge Québec G3H 1C3  
Tel. 418-873-4509 Fax. 418-873-2561  
Toll free : 1-866-999-4509  
<http://www.sablemarco.com/>

#### TECHNICAL DATA

##### Niveltech (in bag)

Physical appearance  
Colour  
Shelf life

Powder

Grey

6 to 12 months in its original  
packing,  
in a dry, cool place  
Fire propagation : 0  
Fuel value : 0  
Smoke emission : 0  
Consult MSDS

##### Flammability

##### Health and safety

##### Niveltech (after mixing)

Mixture proportion (metric)  
Mixture proportion (English)  
Density  
pH  
Application temperature  
Mixture useful life at 73°F (23°C)  
Self-levelling life at 73°F (23°C)  
Final setting - (ASTM C266)  
Delay before the installation of floor covering.

4.5 litres of water /22.7 kg bag  
1.2 US gal/50 lbs bag  
118 lb/ft<sup>3</sup> (1.90 kg/l)  
11  
50°F to 95°F (10°C to 35°C)  
20 to 30 minutes  
20 minutes  
35 minutes  
12 hours, depending on room  
temperature

##### Standard tests

Compressive strength -ASTM C109 (CSA-A5) (Dry curing)

1 day 3000 psi (20.7 MPa)  
7 days 3920 psi (27.0 MPa)  
28 days 4530 psi (31.2 MPa)

Flexural strength – ASTM C348 (CSA-A23.2-8C)

7 days 580 psi (4.0 MPa)  
28 days 1383 psi (9.5 MPa)

Adhesion by tensile load (concrete fracture) CSA-A23.2-6B

7 days 390 psi (2.7 MPa)  
28 days 493 psi (3.4 MPa)

Volumetric change (ASTM C157) 28 days

-0.04 %

##### Packing

Product yield (from 50 lbs bag)

50 lbs (22.7 kg) bag  
0.42 ft<sup>3</sup> (0.012 m<sup>3</sup>)

##### Average consumption as a function of layer thickness

(50 lbs)  
1/5" (5 mm) 26 ft<sup>2</sup> (2.4 m<sup>2</sup>)  
1" (25 mm) 5.1 ft<sup>2</sup> (0.5 m<sup>2</sup>)  
2" (50 mm) 2.6 ft<sup>2</sup> (0.2 m<sup>2</sup>)

Note: The final data concerning consumption are approximations and should not be used but as estimation tools. Actual consumption is a function of the state of the surface, its profile, the equipment used, application techniques and an unavoidable material waste.