

SIBFLOOR NIV 10

Substrat floor screed

AT GLANCE

Fast track installation

Thickness from 3 to 30 mm

Environmentally friendly
technology

Pumpable

Stable floor base

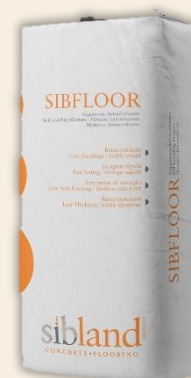
VOC and APEO-free

Indoor Use

Low Shrinkage

Easy application

Low Shrinkage



Manufacturer

SIB, Sociedade Industrial
De Britagem De Pedra, LDA

DESCRIPTION

SIBFLOOR NIV 10 is an easy flowing self leveling base screed that can be used as a base for any of the SIBLAND flooring products.

SIBFLOOR NIV 10 is a pre-blended powder based on selected aggregates and special cements. It is designed to level indoor base floors. SIBFLOOR NIV 10 should always be bonded to substrate with SIB Eco Primer A6. It is fast setting and gain strength fast. These properties makes it possible to open for light foot traffic in 2-6 hours and other floors may installed on it after only 24-72 hours, depending on the thickness and conditions where it has been applied.

SIBFLOOR NIV 10 is easy to screed and level and maintains workability between 15-25 minutes. It is non-hazardous and possesses a low odor.

FIELDS OF APPLICATION:

SIBFLOOR NIV 10 can be used as substrate for the SIBLAND flooring product range. SIBFLOOR NIV 10 creates a solid base. The product highlights on being very stable and its very low shrinkage. This makes it a very good base screed for any type of top flooring systems. Not only for SIB products.

TECHNICAL PROPERTIES AND CHARACTERISTICS

Composition	Special cements, and aggregates
Aggregate size	< 1 mm
Compressive strength (N/mm²)	35 N/mm ²
Flexural strength (N/mm²)	10 N/mm ²
Adhesion to concrete	> 2 N/mm ² (28 days)
Application temperature	Min. +5°C, max. +35 °C
Final set	1 – 3 hours
Application thickness	3 – 30 mm
Other floor install	1 to 3 days depending on thickness
Consumption	1,7 kg/mm/m ²
Shrinkage	0,03 - 0,05 %
Fire resistance	A1fl (as per EN 13813)
Mixing ratio	25 kg Powder component to 5,0 - 5,25 l water (20 - 21 %)
Opening time	15 - 30 minutes at 20 °C. The opening time depends on a lot of factors such as wind and the air and floor temperatures. Furthermore, drying time is dictated by the product temperature and the water used. For these reasons we always recommend to test a small area prior to starting full coverage.

SUPPORT PREPARATION

Prior to application, ensure that the surface is stable and has sufficient surface tensile strength (minimum 1 Mpa). The Concrete substrate should be clean, dry and free from old coatings, grease, paints, lime, laitance from the cure of mortars, dust or other contaminants that could affect the bonding of the material.

SIBFLOOR NIV 10 is always installed and bonded with SIBECOPRIMER A6 or epoxy primer and sand. The primers should be applied over rough textured surfaces. Grinded, bushammered or milled. To prevent cracking in the substrate to be transmitted, cracks in substrate should be repaired before leveling.

Mechanical surface preparation like blasting, sanding, rough grinding or milling is recommended. The substrate must have open pores and a textured surface to secure good adhesion.

The substrate should be vacuum cleaned to remove all dust, debris and loose particles prior to the application of the primer.

SIBFLOOR NIV 10 can be used to repair holes etc, before applying a final layer over the entire surface. If SIBFLOOR NIV 10 is used for repairs, open the pores and apply sib eco primer A6 again before additional applications.

Use form foam, special tapes or other flexible separators to avoid direct contact with the screed material and walls, columns or tubes or other objects going through the floor.

MIXING AND APPLICATION

Material is best applied between 5 to 30 °C. SIBFLOOR NIV 10 may be mixed and pumped.

If mixer pump is used, the water flow rate should be adjusted to achieve the required amount of fluid to make a uniform grey homogeneous mix. Regular checks should be made to ensure the correct consistency of material is maintained. After placing, spread to the required thickness with a gauge rake.

SIBFLOOR NIV 10 may also be applied manually. Mix in a clean mixing vessel and mix using a slow speed drill or paddle mixer.

Mix until a smooth, lump-free, uniform color consistency is achieved. Pour the mixed SIBFLOOR NIV 10 onto the floor and spread to the required thickness using a gauge rake.

Do not mix SIBFLOOR NIV 10 powder with anything but clean water.

A small test should be carried out before the application to adjust the correct amount of water to use in the mix and to test the setting time. Air flow, temperature, humidity in the air and substrate, influence on the product's workability and drying time. There can also be small variations in the mixing rate depending on the age of the material or weather conditions.

Once the material begins to thicken the material should not be touched further and left to dry. Under no circumstances alter the recommended water level of 20 to 21 % of water.

Be aware that SIBFLOOR NIV 10 dries relatively fast. Do not mix bigger quantities than you can apply.

FINISHING

SIBFLOOR NIV 10 should be lightly diamond grinded or sanded to remove the cement laitance created during curing and then primed accordingly to receive the toplayer.

PRODUCTION, PACKAGING, STORAGE AND EXPIRY DATE:

SIBFLOOR NIV 10 is available in 25kg (55,1 lbs) bags.

The product can be stored in its original packaging for 12 months in a dry place at a controlled temperature (not below 0°C/32°F). Recommended storage is between 10 and 25°C (50°F and 77°F).

COMPLEMENTARY INFORMATION:

The application has to be protected from drying too quickly (due to either drafts or intense heat from the sun) for at least 24 hours.

Before using SIB products, consult applicable data sheets, protocols, product labels and safety data sheets. On request from your consultant.

Wash tools with clean water and dry them before and immediately after use.

It is the user's responsibility to read the instructions and warnings for any SIB product before using it. The valid updated data sheet can be found at www.sibland.company.

WARNING:

Use suitable PPE: impermeable gloves, boots and protective goggles.

Use material only in well-ventilated areas. Exposure to cement dust may irritate eyes, nose, throat and the upper respiratory system/lungs. Silica exposure by inhalation may result in the development of lung injuries and pulmonary diseases, including silicosis and lung cancer. Seek medical treatment if you experience difficulty breathing while using this product. The use of a NIOSH/MSHA-approved respirator (P, N- or R-95) is recommended to minimize inhalation of cement dust. Skin contact with dry material or wet mixtures may result in bodily injury ranging from moderate irritation and thickening/ cracking of skin to severe skin damage from chemical burns. If irritation or burning occurs, seek medical treatment. Protect eyes with goggles or safety glasses with side shields. Cover skin with protective clothing. Use chemical resistant gloves and waterproof boots. In case of skin contact with cement dust, immediately wash off dust with soap and water to avoid skin damage. In case of skin contact with wet concrete, wash exposed skin areas with cold running water as soon as possible. In case of eye contact with cement dust, flush immediately and repeatedly with clean water, and consult a physician. If wet concrete splashes into eyes, rinse eyes with clean water for at least 15 minutes and go to the hospital for further treatment.

See the complete Product Safety Data Sheet.

LIMITED WARRANTY:

SIB - Sociedade Industrial De Britagem De Pedra, LDA warrants its materials to be of good quality and, at its option, will replace or refund the purchase price of any material proven to be defective within one (1) year from date of purchase. The above remedies shall be the limit of SIB's responsibility. Except for the foregoing, all warranties expressed or implied, including merchantability and fitness for a particular purpose, are excluded. SIB shall not be liable for any consequential, incidental, or special damages arising directly or indirectly from the use of the materials. In order to obtain all the results and technical properties of the products, all SIB specifications and instructions on transport, storage, use, application and maintenance must be fully complied with, otherwise, SIB does not guarantee the technical results and properties of the products.

The warranty does not cover scratches, which are normal for this product. The guarantee is associated with correct maintenance procedures. This warranty does not apply and SIB is not responsible for small surface marks and color variations. Due to the raw materials used in the manufacture of the products, small surface marks and/or color variations may occur. These are not considered product defects as they are inherent to the manufacturing process.