

SIBFLOOR C BASE

Substrat floor screed

AT GLANCE

- Fast track installation
- Thickness from 10 to 60 mm
- Environmentally friendly
- Pumpable
- Stable floor base
- VOC and APEO-free
- Indoor Use
- Low Shrinkage
- Easy application
- Fast drying



Manufacturer

SIB, Sociedade Industrial
De Britagem De Pedra, LDA

DESCRIPTION

SIBFLOOR C BASE is an easy-flowing self-leveling base screed that can be used as a base with 10 to 60 mm for any of the SIBLAND flooring products.

SIBFLOOR C BASE is based on special cements, selected aggregates and chemical additives. It is designed for indoor use on bonded or unbonded substrates (> 40 mm). It is fast setting and gains strength fast. These properties make it possible to open for light foot traffic in 2 to 6 hours and other floors may be installed on it after only 48 to 72 hours, depending on the thickness applied.

The advantages of SIBFLOOR C BASE are its ease of use, quick drying and high mechanical performance.

FIELDS OF APPLICATION:

SIBFLOOR C BASE can be used indoors as base screed for any type of top flooring systems, not only for SIBLAND products: **on concrete surfaces, screeds, mosaics, etc...**

TECHNICAL PROPERTIES AND CHARACTERISTICS

Composition	Special cements, and aggregates
Aggregate size	< 4 mm
Compressive strength (EN 13892-2)	35 MPa* (N/mm ²)
Flexural strength (EN 13892-2)	10 MPa* (N/mm ²)
Adhesion to concrete	> 2 N/mm ² *(28 days)
Application temperature	Min. +5°C, max. +30 °C
Application thickness	10 – 60 mm
Other floor install	1 to 3 days depending on thickness
Consumption	2 kg/mm/m ²
Shrinkage	0,03 - 0,05 %
Fire resistance (EN 13813)	A1fl
Mixing ratio	10 – 12% (2,5 – 3,0 l of water to 25 kg of SIBFLOOR C BASE)
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.
Drying time	Can be stepped on: 3 – 4 hours Light Traffic: 72 hours Heavy Traffic: 7 days

*Technical results may vary depending on site conditions, age of SIBFLOOR C BASE. In addition, the percentage of water influences the final strength of the material.

Ambient temperature, support and product: 5 to 30°C (41 to 86°F) – Outside of this range, the application, aesthetic or mechanical properties of the product, as well as its adhesion can be altered.

SUPPORT PREPARATION

Before application, ensure that the surface is stable and has a tensile strength of at least 1.5 MPa. The support must be dry, free from any traces of pollution and humidity.

Mechanical preparation of the surface is recommended, using a diamond, milled, sandblasted or sanded mechanical process. Cracks, holes and other deeper defects must be filled and repaired.

SIBFLOOR C BASE can be installed unbonded from 40 mm thickness. In lower thickness the base should be primed.

The support must be vacuumed to remove all dust, debris and loose particles before applying the primer. Apply SIBECOPRIMER A6 (see product technical sheet for more information) or epoxy and sand.

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

To reduce the risk of cracks appearing due to base retraction, it is not recommended to apply SIBFLOOR C BASE to substrates that have cured for less than 28 days.

SIBFLOOR C BASE can be used to repair holes etc, before applying a final layer over the entire surface. If SIBFLOOR C BASE is used for repairs, open the pores and apply SIBECOPRIMER A6 again before additional applications.

If the base is not cement-based, consult our Technical Department.

MIXING AND APPLICATION

SIBFLOOR C BASE can be mixed and pumped. Adjust the amount of water to achieve the required amount of fluid to form a homogeneous, lump-free and uniform gray color mixture. Regular checks should be made to ensure that the correct consistency of the material is maintained. Pour the mixture and spread it to the required thickness using a gauge rake.

SIBFLOOR C BASE can also be applied manually. Mix in a clean container with a low-speed electric mixer, for 3 to 4 minutes, until a homogeneous mixture is obtained without lumps. Let it rest for 1 minute and then mix again for another 30 seconds.

Pour the mixture onto the floor and spread it to the desired thickness using a gauge rake. Use a notched trowel and a spike roller to help with leveling and release possible air bubbles in the floor.

A continuous application without pauses, presents a more uniform final result. If the application process is interrupted, mix again before resuming application.

Do not mix SIBFLOOR C BASE with anything but clean water and do not change the mixing ratio.

A test sample must be made before application to adjust the correct amount of water to be used in the mixture and to test workability and drying time. Wind, air temperature and substrate humidity influence the product's workability and drying time.

Once the material begins to dry, it should not be touched anymore. Leave to dry for 3 to 4 hours.

SIBFLOOR C BASE dries relatively quickly. Do not mix bigger quantities greater than the application capacity and regularly wash machines, pipes and tools.

FINISHING

SIBFLOOR C BASE 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 C BASE 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. Do not cover the finished surface with plastic or other materials.

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.