



# TECHNICAL DATA SHEET

## SIBEXTREME T

### High performance overlay

## AT GLANCE

- Natural look
- Full RAL color range
- Troweled finish
- Indoor Use
- Joint free flooring
- No Shrinkage
- High compression resistance
- High flexion resistance
- High abrasion resistance



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## DESCRIPTION

SIBEXTREME T is an advanced, professional grade, two-component, easy levelling topping, based on selected aggregates (1 to 3 mm) and special cements, that make a troweled finish.

SIBEXTREME T has been developed for a troweled finish for industrial applications and outperform other toppings on abrasion and resistance and flexibility, that allows to make joint-free floors (up to 600 m<sup>2</sup>)

SIBEXTREME T levels rapidly and maintains workability for up to 30-90 minutes, giving the applicator the necessary time for the application.

To obtain a good result with an even and flat surface using SIBEXTREME T, we recommend the use of a ride-on trowel. The low weight walk-behind trowels and faster curing time require high capacity with walk behind trowels for a good result. Make sure they are stable machines that does not move too much - if they move a lot, they will create trowel marks.

## FIELDS OF APPLICATION:

SIBEXTREME T can be used indoor as new or as replacement floor. SIBEXTREME T can also be used for new domestic, commercial and industrial flooring, where high abrasion resistance and fast opening to traffic is needed, such as: homes, building entrance halls, museums, cinemas, exhibition halls, offices, general stores, food industry, restaurants, car garages, hotels and hospitals, industrial facilities, schools, airports, warehouses, etc...

SIBEXTREME T is conductive and can be used in industries where conductive floors are needed.

## TECHNICAL PROPERTIES AND CHARACTERISTICS

<b>SIBEXTREME T (Compound A)</b>	20 Kg
<b>SIBEXTREME COMP B S22 (Compound B)</b>	17 – 20% in weight* - 3,4 - 4 Kg (7,5 – 8,8 lbs) 15 – 17% in volume* - 3 a 3,4 l
<b>Consumption</b>	2,5 Kg/m <sup>2</sup> per mm thickness of mixed product (A+B)
<b>Density (Compound B)</b>	1,22 ± 0,02
<b>Minimum thickness</b>	10 mm
<b>Opening time (22°C)</b>	30 to 90 minutes The opening time depends on many factors, from wind to support and air temperature. In addition, it also depends on the temperature of the product and the water. We always recommend performing a sample on a small area before application.
<b>Application thickness</b>	10 to 30 mm
<b>Drying time</b>	Light traffic - 2 to 5 days
<b>Aggregates</b>	< 3 mm
<b>Shrinkage (EN 13454-2)</b>	< 800 µm/m
<b>Compressive strength (EN 13892-2)</b>	60 - 80 MPa (N/mm <sup>2</sup> ) * - 28 days
<b>Flexural strength (EN 13892-2)</b>	13 - 20 MPa (N/mm <sup>2</sup> ) * - 28 days
<b>Abrasion resistance - Böhme (EN 13892-3)</b>	A12 – A1,5 **
<b>Reaction to fire (EN 13501-1)</b>	A1 fl

\*The percentage of SIBEXTREME COMP B and technical results may vary depending on site conditions, age of SIBEXTREME T and pigments used. In addition, the percentage of COMP B 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 (Pull-of test).

The support must be dry, free from any trace of pollution and humidity (< 4,5%). Old supports with low adhesion must be removed. In any case, a test must be carried out to validate the compatibility of the products.

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.

Apply SIBAQUAPOX or SIBPRIMER E-100 primer saturated with broadcast sand. Let it dry for up to 24 hours, depending on atmospheric conditions. After drying, the surface must be vacuumed to remove loose sand. If you have any doubts regarding the primary issue, consult the Technical Department.

SIBECOPRIMER A6 is a green alternative to epoxy primers. SIBECOPRIMER A6 is a green water-based product that works together with a cement powder that is brushed onto the surface. Consult SIBECOPRIMER A6 technical data sheet.

Foam, special tapes or other flexible separators should be used to avoid direct contact with the self-leveling material and walls, columns or tubes or other objects going through the floor.

Surface and ambient temperatures should be between 10°C to 32°C (50°F to 90°F).

## MIXING

Make sure that the compound B (SIBEXTREME COMP B S22) is well stirred before use.

Prepare the material with a traditional concrete mixer (avoid mixers that create air bubbles in the product). First add the required amount of liquid (SIBEXTREME COMP B S22) and then add the powder material (SIBEXTREME T) while mixing. The material must be mixed for 2 to 3 minutes, until the mixture is free of lumps. Always repeat the same process for each mixture.

Additional liquid can be added if necessary. For more uniform results, use bags from the same batch and the same mixing times.

During application, and whenever the mixture remains in the container for more than 5 minutes, remix a little before applying.

Can be applied with a mixing pump. Make sure that the mixing pump is suitable for mortars with aggregates of 3 to 4 mm. A prior test must be carried out.

A test sample must be made before application to adjust the correct amount of compound B to be used in the mixture and test workability and drying time. Wind, temperature, air and substrate humidity influence the product's workability and drying time. There may also be slight variations in the mixing ratio depending on the color and pigments used.

## APPLICATION

Prepare the work area to ensure continuous application without joints. A more uniform application will be achieved if the product is applied continuously.

The product can be applied manually or pumped with appropriate machines. Pour SIBEXTREME T and spread the product with a ruler (can be vibratory) or leveling spatula. To guarantee a minimum thickness of 10 mm, use a 10 mm diameter iron rod as a guide. When removing the bars, pour material over the area to smooth it out. Finally, level the product with a spike roller

Let the material dry for 2 to 8 hours (depending on the temperature). As soon as it is possible to step on the floor without making a mark greater than 2 or 3 mm, the material is ready to be troweled. Once the process has started, it must be completed without interruption. SIBEXTREME T dries more quickly than traditional concrete, so to obtain a good result, it is essential to have sufficient labor and equipment.

A better result will be obtained if a ride-on trowel is used. To reduce trowel marks on white or light colors, PVC trowels and plates can be used. Traditional walk behind machines tend to leave more marks and do not even out the floor well. Electric machines, traditionally very light and with less rotating power, may not provide the desired finish.

During the trowel process, if more moisture is needed to improve workability, add component B (SIBEXTREME COMP B S22) in small quantities (never add water).

Wear suitable footwear during the process to avoid leaving marks on the floor.

A test sample must be carried out, to test the entire process and avoid making mistakes on site.

If the base does not have joints, SIBEXTREME T can be applied without retraction joints. Joints in existing floors must be respected in the new application or special precautions must be taken. If joints are cut into the floor, they must be filled to prevent water from infiltrating the product, which could cause efflorescence or discoloration of the joints.

SIBEXTREME T needs to breathe and should not be covered with non-permeable materials during or after curing. The product does not require traditional curing. Do not add any curing products or plastics, usually used to cure traditional concrete. Low temperatures can prolong drying time and high temperatures can speed up curing time. The floor should not be walked on during the curing process.

## FINISH

SIBEXTREME T must be sanded in order to seal the material properly. We recommend to let the floor cure for 72 hours to achieve a good seal and avoid blooming and other issues on the floor.

## SEALING

SIBEXTREME T must be sealed depending on usage. Consult the technical department for more information on the appropriate sealing system for each situation.

## PRODUCTION, PACKAGING, STORAGE AND EXPIRY DATE:

SIBEXTREME T is available in:

- Compound A (SIBEXTREME T) - 20kg (44,1 lbs) bags
- Compound B (SIBEXTREME COMP B S22 – 20 l buckets

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:

Support preparation is essential for a good result. The flatter and more level the support, the better the end result.

Do not add water, sand, aggregates, cement, plaster or other products to the SIBEXTREME T mixture.

SIBEXTREME T can cause corrosion if it comes into direct contact with some metals. When decorative profiles are used on the floor, it is recommended to apply an epoxy primer and broadcast sand to the sides of the profiles that are in direct contact with the mortar.

Do not use SIBEXTREME T on substrates subject to rising humidity. Consult the Technical Department for more information.

SIBEXTREME T is not recommended for damp areas, in locations subject to freezing temperatures or where de-icing salts are used.

Note that this product is a mineral product. The colors of floors made with SIBEXTREME T are not always uniform, a typical characteristic of this type of product. In addition to the inherent nature of this type of product, differences in tones and brands can also be caused by the way the product is applied, differences in temperature and substrate. To ensure a uniform appearance, it must be applied continuously without interruption. Attention to slight color differences due to the use of different production batches. Ensure that the application can be carried out with the same production batch.

Product colors are not fully compatible with the RAL code and therefore should only be considered as estimated ratings. The final color of the product must be validated by physical sample before starting the application. Always perform a test sample to see if the requested color matches the color supplied. SIB is not responsible for manufacturing errors after application.

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](http://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.