

AT A GLANCE

Manufacturer

SIB, Sociedade Industrial
De Britagem De Pedra, LDA

Natural look	Custom colour range
Matt to high gloss Finish	Indoor flooring
Joint free flooring	Ultra High Performance
Only constructive movement joints	No Shrinkage
CE mark	High Strength
LEED Certified products	High Flexibility
Architectural freedom	High Abrasion Resistance

DESCRIPTION:

Extreme Style is classified as Ultra High Performance Concrete with a unique combination of hardness, flexibility, wear resistance and no shrinkage. Suddenly seamless floors of hundreds of square meters are no longer a problem.

Extreme Style is an advanced, professional grade, two-component, mineral based screed that can be used to create uniform floors with small aggregate exposure, micro Terrazzo or terrazzo with big aggregates. It is based on selected aggregates and special cements. It can be ground and polished to the desired appearance.

Extreme Style gives you almost total architectural freedom. You can chose the colour of the cement, make it a uniform colour using aggregates under 1 mm, use big stones or design the mix of aggregates in colours and size to create the expression you want for your building.

Extreme Style is easy to screed and level and maintains workability between 30-90 minutes, giving the applicator time to carry out the correct application.

FIELDS OF APPLICATION:

Extreme Style is used internally for new and replacement domestic, commercial and industrial flooring. Wherever you need a high or extremely high abrasion resistance.

It can be used in schools, museums, retail, restaurants, lobbies, shopping centres, airports. Due to its high wear resistance Extreme Style is suitable for extremely heavy industrial applications like warehouses and logistic centres, metal processing plants etc.



TECHNICAL PROPERTIES AND CHARACTERISTICS

Description	Values	Compare
Mixing rate Component A & B:	Approx. 20 kg mortar A to 22-23 % Liquid B in weight 2.2 kg/m ² /mm Powder to 0.44 kg B/m ² /mm	
Mixing rate (binder & Aggregates) A & B component	Mixing rate Component A & B: Approx. 20 kg mortar A to 20-23 % Liquid B in weight 2.2 kg/m ² /mm Powder to 0.4-0,44 kg B/m ² /mm*	
Density B Component S 28	1,24 kg/l	
Consumption	2,6-2,7 kg total between A & B(liquid) per mm thickness/m ²	
Recommended minimum thickness	10 mm after grinding Screeded down in minimum 12 mm	
Opening time (22°C/72°F)	30 - 90 minutes	
Compressive strength EN13813	C 40-80 N/mm ² 7 days** C 50-90 N/mm ² 28 days** C 60-100 N/mm ² 180 days**	
Flexural Strength EN13813	F9-F15 N/mm ² 7 days** F12-F16 N/mm ² 28 days** F13-F20 N/mm ² 180 days**	
Abrasion Resistance	AR 0,5	
Thickness of application	12-30 mm : Minimum 10 mm after grinding	
Open to traffic	Light -2 days Heavy - 5 days	

*Mixing rate may change depending on site conditions, age of material, aggregates size and type and colours/pigments used. Applicators like to apply more liquid or more dry and the materials workability can be individually adapted.

**Technical results may change depending on site conditions, age of material, aggregates size and type and colours/pigments used. Furthermore the mixing rate and consumption of liquid B component will influence on the final strength of the material.

The binder can be purchased without aggregates, so locally purchased aggregates can be used. Make sure that the aggregates are free from contermination and are clean and dry.

ENVIRONMENTAL ADVANTAGES:

Use SIB Extreme Style to reduce your carbon footprint and lower your environmental impact. Hard wearing floors are achieved with low material consumption and therefore much lower environmental impact. SIB Extreme Style is classified Emicode EC1 plus and can be used in LEED certified buildings.



Extreme Style

High Performance Terrazzo

PREPARATION:

The concrete base or other floor bases must be clean, free of dust and grease. The base must be consistent, without loose particles and disaggregation. The foundation should have a minimum tensile strength of 1.5 MPa. The base must be visually dry with a maximum moisture content of 4% without the possibility of increased moisture by capillary action.

If you have doubts about moisture, you may take precautions by using special primers. Cracks in the base should be repaired. Weak bases, which cannot sustain the contraction of coating must be removed or restored.

The foundation should be ground or blasted and then aspirated. Use primer SIBPRIMER EPOXY spread with sand aggregates 1,0 to 1,8/2,0-mm till saturation. Then leave to dry. The drying times depend on the weather conditions and can be up to 24 hours. After drying, the surface should be vacuumed to remove loose sand particles. Consult our technical department for other primer options.

SIB ECO PRIMER A 6 is green alternative to Epoxy primers. SIB ECO PRIMER A6 is a green waterbased product that works together with a cement powder that is brushed onto the surface. Consult SIB ECO PRIMER A6 Data sheet.

Foam, special tapes or other flexible separators should be used to avoid direct contact with the self levelling 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 B component (Style B (S 28 - Blue coloured buckets)) is well stirred before use. Add the indicated measured amount of B compound (liquid).

Add the bags of A component (powder) to the mixing container while the mixer is running. Additional liquid may be added if necessary.

Multi-bag batches. After the final bag is added to the batch, mix an additional 2 to 3 minutes until the mixture is lump-free.

Once mixing rates have been established, make sure that the mixing is always done in the same way with the same amount of liquid and the same amount of time.

Avoid mixers that entrap large amounts of air. The material has to be used right after mixing. If the mixed material is left for more than 5 minutes and settles, the material should be remixed before application. Ideal working temperatures are between 10°C (50°F) to 27°C (80°F).

Extreme Style

High Performance Terrazzo

We recommend the use of horizontal mixers or traditional concrete mixers for SIB Extreme Style. When base and aggregates are added separately, make sure that they are added more or less at the same time. If several bags are added to the same mixer, then add 1 bag of aggregates, then 1 bag of base, then 1 bag of aggregates, 1 bag of aggregates etc.

APPLICATION:

Arrange the work area to permit continuous placement without cold joints. A more uniform application will be achieved if precautions are taken and the material is screeded continuously.

The product can be applied manually or pumped using adapted machines. The pumping machine must be able to provide the right amount of component B to component A. Apply the mortar SIB EXTREME STYLE using minimal thicknesses of 12 mm.

If the mix contain big aggregates we recommend to screed 1-2 mm thicker than the biggest aggregate.

Screed the material into place with screed bars and go over the floor with spike roller specially made for cement based overlays. It should only be passed over the surface and avoiding pressing down the aggregates. This will even the surface and remove air bubbles.

If the base has no joints, the mortars can be applied joint free. EXTREME STYLE can be applied without any retraction joints. Joints in existing pavements should be respected in the new application.

CURING:

Extreme needs to breathe and should not be covered with non-breathable materials during or after curing.

Low temperature can extend curing time and high temperature may decrease setting time. The floor must be left without traffic during curing.

POLISHING:

Extreme Style may be ground and polished after 24-72 hours at normal conditions. To achieve the right appearance and correct sealing of the floor you need to grind until the surface film created during the curing is removed. Terrazzo with big aggregates will need to be ground until the aggregates are properly exposed.

The grinding can create pores in the surface and it can be necessary to fill in the pores during the polishing process.

Polishing any topping requires a high degree of experience and craftsmanship. Contact us and use approved installers. We recommend dry polishing, as Extreme Style is sensitive to water.

SEALING:

Extreme Style should be sealed according to the use and type of traffic. Consult with our applicator and technical department prior to use.

Let the floor and sealer dry for minimum 5-7 days before cleaning with water.

SPECIAL PRECAUTIONS WITH EXTREME

The preparation work is essential for a good result. The flatter and more level the base floor is, the better finished result. Extreme Style is recommended so the finished floor is 10 mm thick in an even layer. A terrazzo with bigger aggregates will need more grinding, so you must adapt the thickness of the screeding so you have a minimum thickness of 10 mm after grinding. If you need to grind off 3 mm to expose aggregates, the floor needs a screed of at least 13 mm.

Extreme can cause corrosion in direct contact with some metals. When decorative profiles are used in the floor, problems can be avoided by applying the SIB Epoxy primer and sand on the sides of the profiles that are in direct contact with the mortar.

Extreme needs to breathe and should never be covered with non-breathable materials.

Extreme is very sensitive to moisture and it is important to take precautions during the application, curing and sealing processes, especially if the moisture content in the air is very high.

The colours of floors made using Extreme Style are not always uniform, which is a typical feature of cementitious based products. Apart from the inherent nature of this kind of product, differences in the various colours may also be caused by the way the product is applied. Also, it must be cast continuously without long gaps, in order to guarantee a uniform appearance.

Do not add water, sand, stones, lime, cement, gypsum or other products to the Extreme Style mix.

Do not use Extreme style on substrates which are subject to rising damp (consult the SIB Technical Services Department).

Store and install materials at temperatures between 5° to 35°. B (liquid compound) should not be frozen.

SIB Extreme Style is made for indoor applications.

Applying a hydrophobic agent over the tools before use, will make them easier to clean and can also prevent oxidation on metal tools that might react to the Extreme products.

PRODUCTION, PACKAGING, STORAGE AND VALIDITY

The EXTREME STYLE is sold in two components: - Component A (Mortar) - 20 kg bags
Component B (water based solution) - buckets 20 litres or IBC.
Products can be packed according to individual needs.

Store bags and containers in a dry place and protected from extreme temperatures and direct sunlight. With the right conditions of storage, the product is valid for 12 months from the manufacturing date.

CRACKING AND USER RESPONSIBILITY:

There are 3 things that influence on the risk for cracks in a non-structural topping – the substrate, the shrinkage and flexural strength.

Rigid, non-structural toppings crack in corners, around columns and insert and along curved surfaces, because of the shrinkage. It is not possible to predict the appearance of micro-cracking in a non-structural topping and similar overlays are not capable of withstanding movement in the substrate. Reflective cracks may appear due to vibration, substrate flexure or existing joints and cracks.

Extreme will never crack on its own and will not crack along curved walls, corners etc. Extreme products do not need contraction joints. The mortars in the EXTREME SERIES have no shrinkage and have a very high flexural strength which is why they can withstand a lot of movement from the substrate and can take a lot more stress than most other cement based products.

None the less - surface preparation and substrate conditions are essential for the performance of the topping and SIB cannot be responsible for cracks or other problems caused by bad substrates or wrong surface preparation.

The EXTREME SERIES is designed as a high abrasion resistant surface.

Extreme Style is designed to have natural concrete appearance and visual variations to the finished floor should be expected. Extreme Style is not recommended for wet areas or in locations subjected to freezing temperatures or where de-icing salts will be used.

Before using SIB products, read current technical data sheets, bulletins, product labels and safety data sheets. It is the user's responsibility to review instructions and warnings for any SIB products prior to use. The latest valid data sheet can always be found on sibland.company

WARNING: DO NOT BREATHE DUST. AVOID CONTACT WITH SKIN AND EYES.

Use material in well-ventilated areas only. 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. Eat and drink only in dust-free areas to avoid ingesting 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.



Sociedad Industrial
de Britagem de Pedra

PRODUCT DATA SHEET

Extreme Style

High Performance Terrazzo

April 2020
2 edition

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.