

AT A GLANCE

Manufacturer

SIB, Sociedade Industrial
De Britagem De Pedra, LDA

Natural look	Custom colour range
Matt to high gloss Finish	Patent Pending
Joint free flooring	Ultra High Performance
Only constructive movement joints	No Shrinkage
ASTM & CE mark	High Strength -
Tested and Certified products	High Flexibility -
Architectural freedom	High Abrasion Resistance



DESCRIPTION:

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

Extreme Style is an advanced, professional grade, two-component, 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 choose the colour of the cement, make it colour uniform with 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 during 60-90 minutes, giving the applicator time for correct application.

FIELDS OF APPLICATION:

Renewal and application of new domestic, commercial and industrial flooring. Where you wish a high or extremely high abrasion resistance.

Can be used in schools, airports, warehouses and logistic centres, retail, restaurants, lobbies, and more.

Extreme Style

High Performance Terrazzo

JANUARY 2017

TECHNICAL PROPERTIES AND CHARACTERISTICS

Pumpable
Fire proof
Durable
Polishable
Easy to screed and work with
Low shrinkage/contraction
No need for curing agents
Long opening time - 60 min+
No cracks or micro spalling

High performance
Superior mechanical characteristics
and abrasion resistance
High Compressive strength and
flexural strength
Esthetic – natural look
Slip resistant
Open to heavy traffic in 4-5 days

Description	Values	Compare
Mixing rate Component A & B:	25 kg/55lb mortar A to 2,5 to 6,0 litres/0.65-1.57 gallons B (The relation between component A and B can change depending on quantity and type of aggregates added)	
Consumption	25 kg total between A & B(liquid) per cm thickness/m2 5,5 lb A and B per 3/8" thickness/sq.feet	
Opening time (22°C/72°F)	Approx. 60-90 minutes	
Compressive strength ASTM C 109	C 50-70 N/mm2 (10150 psi/70 Mpa) 7 days* C 70-100 N/mm2 (14500 psi/100 Mpa) 28 days*	
Flexural Strength ASTM C348	F12 N/mm2 (1740 psi/12 Mpa) 7 days F20 N/mm2 (2900 psi/13 Mpa) 28 days	
BArsion Resistance	Böhme : A9 to A1,5	
Thickness of application	10-50 mm : 3/8 – 2 inches	
Open to traffic	Light 2 days – heavy 5 days*	

*Depending on the quantity and hardness on the aggregates added

PATENT PENDING:

SIB EXTREME is unique patent pending technology

ENVIRONMENTAL ADVANTAGES:

Use Extreme Style to reduce your carbon footprint and lower your environmental impact. Production of Extreme cement emits far less CO2 than Portland cement and you achieve stronger floors with low material consumption.

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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 support should have a minimum tensile strength of 1.5 MPa. The base must be visually dry with a maximum moisture content of 4% without possibility to increased moisture by capillarity.

If you have doubts about moisture, you may take precautions 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 support should be ground or blasted and subsequently aspirated. Use primer SIBPRIMER EPOXY broadcasted with sand aggregates 1,0 to 1,8/2,0-mm till refusal. Then leave to dry. The drying time depend on the weather conditions. Can be up to 24 hours. After drying, the surface should be vacuumed to remove loose sand particles.

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 shall be between 10°C to 32°C (50°F to 90°F).

MIXING:

Make sure that the B component (Style B- Blue coloured buckets) is well stirred before use. Add the indicated measured amount of B compound to each bag of A component to the mixing container. While the mixer is running, add Extreme flow A. 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).

Mixer pumps makes application faster, but you need to be careful – failure in mixing rates can occur and may cause colour changes.

APPLICATION:

Arrange work area to permit continuous placement without cold joints. You will get a more uniform application if 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 3/8" or 10 mm.

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 in the surface and avoid to press down the aggregates. That will even the surface and take out air bubbles.

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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 or special precautions should be taken.

CURING:

Extreme needs to breathe and should not be covered with non breathing materials during or after curing. Do not apply curing agent. It can cause colour change in the material.

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

To protect the floor after application and curing you can do the first steps of grinding . After the pore filling you can apply an extra layer of SIBFILLER IN. When the filler is dry you can cover it with blankets and leave the floor and let other workers finish their work. You grind the SIBFILLER IN off before you finish and polish the floor. The floor should be covered with blankets that permit the material to breathe.

POLISHING:

Extreme Style may be grinded and polished after 24-72 hours at normal conditions. To get the right appearance and correct sealing of the floor you need to grind deep to get off the surface film created during the curing and to expose aggregates correctly.

Polishing any topping requires a high degree of experience and craftsmanship. Contact us and use approved installers.

SPECIAL PRECAUTIONS WITH EXTREME

Extreme can cause corrosion in direct contact with some metals. When decorative profiles are used in the floor, problems are avoided applying the primer 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 breathing materials. It can cause colour changes in the floor.

Extreme is very sensitive to moist and it is important to take precautions during the application, curing and sealing process. Specially if moist content in the air is very high.

PRODUCTION, PACKAGING, STORAGE AND VALIDITY

The EXTREME STYLE is sold in two components: - Component A (Mortar) - 25 kg (55lb) bags - Component B (water based solution) - buckets 20 litres (5.25 gallons)
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 six months from the manufacturing date.

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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 such overlayments are not capable of restraining movement from 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 SERIE have no shrinkage and have very high flexural strength why they can restrain a lot of movements from the substrate and can take a lot more stress than most other cement based products. Non the less - surface preparation and substate conditions are essential for the performance of the topping and SIB cannot be responsible for cracks or other problems cause by bad substrates or wrong surface preparation.

The EXTREME SERIE is designed as a wear surface for high abrasion. Extreme Trowel is designed to have natural concrete appearance and optical variations to the finished floor should be expected. Extreme Trowel is not recommended for wet areas or at locations subjected to freezing temperatures or where deicing 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.

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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.

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.