

AT A GLANCE

Manufacturer

SIB, Sociedade Industrial
De Britagem De Pedra, LDA

Eco- Binder technology
Environmentally friendly
100% mineral-based
VOC and APEO-free
Salt-water resistant

High abrasion resistance
High resistance to chemicals
Easy application
Weather resistant
Indoor and outdoor use



DESCRIPTION:

SIB ECO TERRAZZO is an advanced, professional grade Terrazzo topping made using selected additives, aggregates and special cements. It is suitable for use in both chemical and heavy traffic environments. It is made to match the SIB EXTREME STYLE on outside Areas

SIB ECO TERRAZZO does not suffer from shrinkage and has very high abrasion resistance. These characteristics enable this product to be used for the production of high performance and durable seamless floors.

Due to its unique strength at low volume, the material consumption is low and allows fast application. It is not sensitive to weather or damp and can be applied outside.

Its formulation is based on harmless, VOC-free non-hazardous raw materials. This permits its use in the food processing industry without any further protective measures.

PROPERTIES AND AREAS OF APPLICATION:

- Eco- Binder technology
- Environmentally friendly
- 100% mineral based
- VOC and APEO-free
- Fast stress-free curing
- Salt water resistant
- High chemical resistance (pH 3 – 14)
- Extremely high resistance to abrasion
- Ideal for pool areas with bushhammered finish
- Easy application
- For use both Indoors and outdoors
- For areas with high mechanical loads and chemical usage such as garages, warehouses, production areas, airports and power plants
- Applicable in layer thicknesses of between 4 mm to 50 mm

TECHNICAL PROPERTIES AND CHARACTERISTICS

Compressive strength (N/mm ²)	40 N/mm ²
Flexural strength (N/mm ²)	12 N/mm ²
Abrasion Resistance	BCA AR 0.5
NB. The application of 100 ml/m ² of SIBDURO 360 is an essential treatment to maintain the correct level of abrasion resistance The arbasion resistance does also depend on the aggregates added	
Application temperature	Min. +5 °C, max. +35 °C
Application thickness	4 - 50mm - depending on the aggregates
Consumption	2,1 kg/m ² /mm thickness Minimum thickness 8-10 kg/m ²
Mixing ratio	4.00/4.5 Ltr. water per 25 Kg powder (16 -18%) Mixing ratio can change depending on the colours and aggregates
Opening time:	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.
Consumption:	2Kg per M ² and mm thickness

OPEN TO TRAFFIC:

Light load	Fully loadable (Interior)	Fully loadable (Exterior)
24 hr	4 days	7 days

ANTI SLIP SURFACES

SIB ECO TERRAZZO can be treated with anti slip treatments or bushhammered/textured after application.

SUBSTRATE PREPARATION

Prior to application, ensure that the surface is stable and has sufficient surface tensile strength. The surface should also be dry or slightly damp, clean and free from dust and loose particles.

Mechanical surface preparation, e.g. shot blasting, is recommended. Deeper cracks, holes and other defects must be filled and repaired before application. The surface should be permanently vibration and crack free. Existing cracks in the floor base must be repaired professionally prior to the application of SIB ECO TERRAZZO.

The substrate has to be dry for priming. By using the primer, the absorbency of the substrate is adjusted in order to seal the surface and avoid air bubbles in the final layer of SIB ECO TERRAZZO.

Apply a further layer of primer if necessary. Re-application of the primer must be done within 2 - 6 hours of the first application. Please read the technical data sheet on SIBPRIMER A3 for more information.

SIB ECO TERRAZZO should be applied within 2-6 hours of the application of the primer.

MIXING AND APPLICATION:

A more uniform application will be achieved if precautions are taken and the material is screeded continuously. The surface has to be pre-levelled and even to obtain a uniform colouring. SIB ECO TERRAZZO is screeded into place with screed bars and passed over with a spike roller specially made for cement based overlays. It should only be passed over the surface and pressing down the aggregates should be avoided. This will even the surface and remove air bubbles.

If the base has no joints, the mortars can be applied joint free. SIB ECO TERRAZZO can be applied without any retraction joints. Joints in existing pavements should be respected in the new application. After the material has been levelled out on the floor it should be spike rolled. The finer and longer the spikes are the better result you will get. The layer thickness should be a minimum of 4-5 mm.

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 and humidity in the air and substrate influence the product's workability and drying times. There can also be small variations in the mixing rate depending on the colour and pigments used.

Mix the material using a mechanical mixing machine. Fill with the required amount of water; (4.00/4.5 liters per 25kg powder material), followed by the powder material that is added while stirring. We recommend the use of a HIPPO MIXER or a horizontal concrete mixer. The material has to be mixed intensely for 2 minutes, left to set for 3 minutes and then mixed again for 1 more minute. At the beginning of the mixing process the mortar is slightly creamy. Do not add water at this stage since the material will become more liquid.

The floor has to be protected from drying too quickly (no draft) for the first 24 hours. Do not cover the finished surface with foils or other materials.

FINISHING

To achieve a higher abrasion and chemical resistance an application of SIBDURO 360 is mandatory.

On decorative surfaces made from products in the ECO CRETE Series, the floor should be moistened with a mist of water before the application of SIBDURO 360. Do not leave puddles. The water should be distributed evenly with a micro fiber mop. Too high concentration of SIBDURO 360 may stain the floor and cause efflorescences.

Before the floor is sanded, grinded or polished the floor must be treated with SIBDURO 360. After the application it must be left to dry for 1-2 hours. Wet grinding is not recommended, before the floor is fully cured.

However, please contact our technical department for the right sealing system for the correct use in each case. Please refer to the respective data sheets for more information if required.

SPECIAL PRECAUTIONS

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. Some minor colour differences are inevitable due to different production batches and this should be taken into account during application.

If you have different absorbent surfaces we recommend priming with an Epoxy Primer which will help achieve a more even application. If a uniform colour is desired, it is necessary to work on those designated sections with the same batch number (see label). The product is cement based and changes in appearance due to changing working techniques, differences in temperature and substrate can cause lighter color shades in the finished surface.

Please take note that this product is a mineral/inorganic product. Product colors do not fully conform to the RAL code and therefore they should only be seen as estimated classifications.

TOOLS AND CLEANING

Mixing device (drill mixer or pump), trowel, spiked shoes, spiked roller and screed rake or pin leveler. All equipment should be washed with clean water and dried before and after application.

PRODUCTION, PACKAGING, STORAGE, SAFETY AND VALIDITY

SIB ECO TERRAZZO is sold in 25 kg (55lb) bags.

Store bags in a dry place and protected from extreme temperatures (best stored between 5-25°C) and direct sunlight. With the right conditions of storage, the product is valid for 12 months from the manufacturing date.

There is no mandatory hazard labeling for SIB ECO TERRAZZO. Avoid inhaling dust when opening packaging. Protect skin and eyes during the mixing process. Please refer to the Material 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.