

## AT A GLANCE

### Manufacturer

SIB, Sociedade Industrial  
De Britagem De Pedra, LDA

Natural Concrete look

Easy to polish & Finish

Convert traditional concrete into  
white or light coloured surfaces

CE mark

Tested and Certified products

Wide colour range

High Strength

High Abrasion resistance

Thicker wear layer

Polishable after only 5-7 days

Less cracking and microspalling

Indoor and outdoor application

No primer needed



## DESCRIPTION:

**SIBDEKODUR WTW** is a high performance topping composed of special cements, fibres, chemical additives and selected aggregates with high strength and flexibility. It is made for the application on freshly poured concrete, to form a high or extremely abrasion resistant wear layer.

The product can be produced in desired colours. A Wet on Wet application is a thicker wear layer, than a traditional dry shake toppings. Therefore you can avoid contamination from the grey base concrete and it makes it possible to create bright and light, even white coloured pavements on a normal grey concrete base. Sibdekodur WTW also makes it possible to create micro-terrazzo's.

The advantage is that it is applied at the same time as you pour the concrete and you need no primer. It reduce downtime on the floor and people can start working on the floor after only 7 days, where it also can be grinded and polished.

The weakest point is if it is possible for you to have enough control over the Concrete that you have delivered from the Concrete plants. The quality of the system depend on the quality of the Concrete base. **IF YOU CANNOT CONTROL THE QUALITY OF THE CONCRETE WTW SYSTEMS ARE NOT AN OPTION.**

## FIELDS OF APPLICATION:

Where you need a hard wearing topping and to create light coloured surfaces. Dekodur WTW can be used in schools, airports, Hypermarkets and supermarkets, warehouses and logistic centres, retail, restaurants, lobbies, light and heavy industry.

### TECHNICAL PROPERTIES AND CHARACTERISTICS

Pumpable

Fire proof

Polishable

Easy to screed and work with

Low shrinkage/contraction

Aesthetic – natural look

Long opening time - 60 min+

Low cracking risk

High abrasion resistance

High Compressive strength

Slip resistant

Open to heavy traffic in 7 days

#### PROPERTIES

- High mechanical resistance, especially to abrasion, because of the high strength aggregates;
- Long life, given the high resistance of the pavement

C = Compressive Strength. F = Flexural Strength. A = Abrasion Resistance. Kg/m<sup>2</sup> = Consumption

	C (N/mm <sup>2</sup> ) EN13892-2	F (N/mm <sup>2</sup> ) EN13892-2	A Böhme	Kg/m <sup>2</sup>
SIBDEKODUR A9	C60	F9	A9	3-6 kg/m <sup>2</sup>
SIBDEKODUR A6	C60	F10	A6	3-6 kg/m <sup>2</sup>
SIBDEKODUR A5	C70	F10	A5	3-6 kg/m <sup>2</sup>
SIBDEKODUR A3	C70	F11	A3	5-9 kg/m <sup>2</sup>
SIBDEKODUR A1.5	C80	F11	A1.5	5-9 kg/m <sup>2</sup>

#### JOINT FREE FLOORING:

It is possible to use WTW topping in a special modified version on joint free concrete floors. Sibdekodur WTW takes part of the base concrete why the quality of the finished floor depend 100 % on the quality of the concrete base it is applied on.

#### MIXING:

Add water to the product ( 3-3,7 l to 25 kg bag of mortar). Mix with an electric mixer or concrete mixer to a consistent and homogeneous paste. Mix for 3-4 minutes. The product may be applied manually or by mixer pump. Maintain material temperature between 16°C (60°F) and 27°C (80°F)

# Dekodur WTW

Hard Aggregate Wear Layer

JANUARY 2017

## APPLICATION:

Depending on the thickness and design of the pavement, the concrete base must be vibrated and screeded through a mechanical process. The concrete base could be reinforced with steel mesh or metal fibres, in proportions of 20-40kg/m<sup>3</sup> dosed concrete to increase the resistance to bending. The use of steel, steel mesh or metal fibres drastically reduces the risk of cracks in the pavement. Once the concrete has taken strength to withstand foot traffic without significant deformation, it is time to apply SIBDEKODUR WTW. This is normally when the foot print is +/- 1 mm.

The floor is troweled with plates the first time. After the first trowel the fresh on fresh topping in screeded over the floor. The mortar should be well regulated and vibrated through the application process, using vibrators and screed. The mortar should be well integrated with the concrete base forming a monolithic pavement.

The process ends with mechanical trowel, just like a traditional concrete floor.

Using light colours, finish should be made using plastic blades, to prevent stains and burns on the surface.

Once finished the trowelling process, the pavement has to cure. It can be done by using traditional curing liquid (SIBCURING/SIBAQUACURE or SIBRESIN 20), water and geotextile. Ask our technicians. It is important to plan a proper design for retraction joints, to avoid cracks. The saw cuts should be made during the first 24 hours after completing the trowelling process.

**TIMING IS ESSENTIAL:** It is important that the base concrete does not dry too much and that the material is applied in the right moment to avoid delamination. Mixing and screeding capacity is essential for a good result.

## Curing:

Once the floor has been trowelled the Sibdekodur WTW has to cure properly. We recommend the use of liquid curing agent (SIBCURING/SIBAQUACURE or SIBRESIN 20), or plastic or geotextile with water for 5-7 days. In the case no separation joints are used, the pavement must be cut after 24 hours. Areas without contraction joints should not exceed 30 m<sup>2</sup>.

## Finish:

Decodur WTW may be sanded or polished after 5-7 days under normal conditions. The material can be used with the troweled finish and does not need after-treatment. Sibdekodur WTW is sealed like a traditional concrete.

## Production, packaging, storage and validity

Decodur WTW is sold in 25 kg (55lb) bags (Mortar)

Products can be packed according to individual needs.

Store bags 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:

Cracking and microspalling, will be reduced using Dekodur WTW, but can appear in Dekodur WTW. The quality of the floor depends 100 % of the concrete base the Dekodur WTW take part of. The curing is of great importance and must be done properly. Movements and cracking from shrinkage in the base concrete can be transmitted to the Dekodur WTW. Dekodur WTW behave very much like a traditional concrete and to avoid problems it is important to control the application, temperature, weather conditions, curing etc.

SIBLAND cannot be responsible for problems related to cracking, micro spalling or delamination using Dekodur WTW.

## 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.