TECHNICAL DATA SHEET

SIBMETAL HP

Industrial dry shake

AT GLANCE

Wide color range

High compressive strength

High flexural strength

High Abrasion resistance

Manufacturer
SIB, Sociedade Industrial
De Britagem De Pedra, LDA

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DESCRIPTION

SIBMETAL HP is a colored surface hardener, made from calibrated quartz, basalt and non-oxidable metal particles aggregates, portland cement and chemical admixtures, thus forming an anti-wear layer on the concrete with effects on dust reduction, impact resistance and wear resistance.

FIELDS OF APPLICATION:

SIBMETAL HP can be used indoor and outdoor: Car parks, Work Shops, Loading Bays, Warehouses, Exhibition Centers, Pedestrian areas, Factories, Logistic Centers, Assembly plants in the Automotive industry, Air Craft Hangars, and storage areas subjected to heavy wear.

TECHNICAL PROPERTIES AND CHARACTERISTICS

Compressive resistance (EN 13892-2)	80 MP*
Flexural resistance (EN 13892-2)	10 MPa*
Abrasion resistance (EN 13892-4)	A1,5*
Superficial hardness	SH1800

*Technical results may vary depending on site conditions, age of SIBMETAL HP and pigments used. In addition, the percentage of water influences the final strength of the material.

APPLICATION

SIBMETAL HP is applied to concrete using a compression sheet defined in the project. It is advisable to vibrate the concrete using a vibrating ruler and use a mechanical trowel as soon as the substrate allows it.

Spread SIBMETAL HP using a manual or mechanical process, by sprinkling at a rate of 6 to 10 kg/m^2 (with different dosages for coloured hardeners), and then incorporate it into the concrete using a mechanical trowel. Depending on the intended purpose, a troweled or smooth finish can be achieved.

In this process, it is important to define the shrinkage joint plan.

For further information, please contact the technical department.

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PRODUCTION, PACKAGING, STORAGE AND EXPIRY DATE:

SIBMETAL HP is available in 30kg (66,1 lbs) bags.

The product can be stored in its original packaging for 12 months in a dry place at a controlled temperature (not below 0°C/32ºF). Recommended storage is between 10 and 25°C (50ºF and 77ºF).

COMPLEMENTARY INFORMATION:

Do not add water during application.

Protect from fast drying (air drafts or direct sun light).

Cracking and microspalling, can appear using SIBMETAL HP. The quality of the floor depends 100% of the concrete base. 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 SIBMETAL HP, which behave like traditional concrete and to avoid problems it is important to control the application, weather conditions, curing, etc... SIB cannot be responsible for problems related to cracking or micro spalling.

Note that this product is a mineral product. The colors of floors made with SIBMETAL HP 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 marks 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.

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.

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